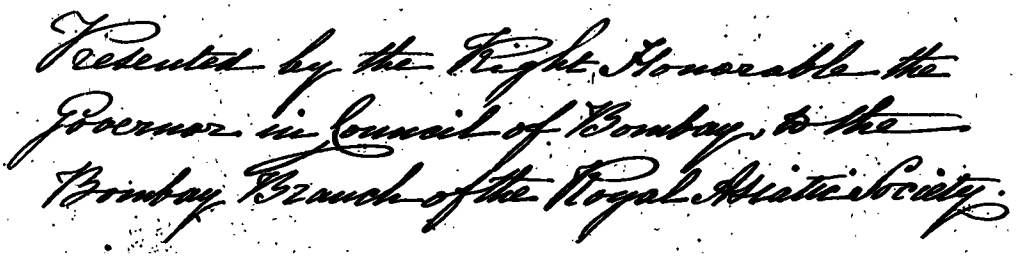
00133490



Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020

Bombay Branch Royal Asiatic Society
8 October 1850

OBSERVATIONS

MADE AT THE

MAGNETICAL AND METEOROLOGICAL OBSERVATORY

AT

BOMBAY,

FOR THE YEAR 1847,

UNDER

133490

THE SUPERINTENDENCE OF

CHARLES WILLIAM MONTRIOU,
COMMANDER, INDIAN NAVY.

PART I.—MAGNETICAL OBSERVATIONS.

11
81
3

Printed by order of the Honorable the Court of Directors.

Bombay:
PRINTED FOR GOVERNMENT
AT THE
BOMBAY EDUCATION SOCIETY'S PRESS.
1850.

00133490

ADVERTISEMENT.

FROM the great extent of the Observations for 1847, it has been judged advisable to print them in two Parts, the First containing the Magnetical Observations, now published.

The Second Part, comprising the Meteorological, Tidal, and other Miscellaneous Observations, is passing rapidly through the Press, and I trust that before long it will be ready for publication.

Since I took charge of the Observatory, my great aim has been to keep the continuity of Observations unbroken, which, owing to the zeal and industry of all the Assistants, has been accomplished, in spite of great interruptions through sickness and other causes.

To Serjeant J. H. Dunn and Keru Luximon, my First and Second Assistants, I am indebted for the most valuable co-operation. Their experience, derived from labours continued through a series of years at the Observatory, has enabled them to offer me from time to time the most valuable suggestions; the Calculations and Adjustments of the different Instruments were made by them; and the greatest care has been taken in correcting the Press; so I trust that none but typographical errors, which are inseparable from a work of this kind, will be found.

The Appendix to the Results, "On the Progressive Changes of the Declination," and the opinions hazarded at Page 500, are the production of Serjeant J. H. Dunn and Keru Luximon.

The delay that has taken place in the printing of the Observations for 1847 has been occasioned by circumstances over which the Superintendent of the Observatory has had no control.

CHARLES W. MONTRIOU,
Commander I. N.,
Superintendent of the Observatory.

Bombay Observatory, 29th July 1850.

TABLE OF CONTENTS.

INTRODUCTION, comprising a Description of — PAGE

Situation of the Observatory .. i
Instruments observed during the year 1847 .. iii
Staff of the Magnetic Observatory, and System of Observation .. iv
Declination Instruments, large and small .. vii
Horizontal Force Magnetometers, large and small .. viii
Horizontal Force Magnetometer and its Irregularities .. x
Temperature Corrections, Large Horizontal Force Magnetometer .. xii
" " Small " " " .. xvii
Gain and Loss of Magnetism in the Magnets of the Large and Small Horizontal Force Magnetometers .. xx
Reduction of the Observations of the Horizontal Force Magnetometer .. xxii
Absolute Determination of Horizontal Force .. xxiii
Vertical Force Magnetometer .. xxv
Effects of Solar White Light on its Needle .. xxvi
Its Occasional Adjustments .. xxvii
Its Co-efficient of Reduction .. ib.
Deflection of its Needle .. xxix
Deduced Value of its Co-efficient of Reduction .. xxx
Reduction of Observations of Vertical Force Magnetometer .. xxxi
Inclination .. ib.
Total Intensity .. xxxii
Magnetic Induction .. ib.
The order in which the Magnetometers were observed at the hour of Observation .. xxxiv

MAGNETICAL OBSERVATIONS.

Large Declination Magnetometer *(in Arc)* .. 1
Small " " " .. 13
Large Horizontal Force Magnetometer *(in Scale Readings)* .. 25
Thermometer of Ditto .. ib.
Small Horizontal Force Magnetometer *(in Scale Readings)* .. 45
Thermometer of Ditto .. ib.
Vertical Force Magnetometer *(in Micrometer Readings)* .. 65
Thermometer of Ditto .. ib.
Induction Inclinometer corrected for Declination .. 85
Term Hour Observations by
Large Declination Magnetometer
Large Horizontal Force Magnetometer *(in Scale Readings)* .. 92
Vertical Force Magnetometer *(in Micrometer Readings)*
Small Declination Magnetometer *(in Arc)*
Small Horizontal Force *(in Scale Readings)* .. 93
Induction corrected for Declination

PAGE

Register of Disturbance Observations 400
Daily Observations of Inclination 426
Observations for Absolute Determinations of Horizontal Force 432
ABSTRACTS OF THE RESULTS OF THE MAGNETICAL OBSERVATIONS 443
Declination :—
Table I.—Mean Value of Absolute Declination (Easterly) for each Day of Göttingen Mean Solar Time 445
II.—Mean of the Scale Readings of Small Declination Magnetometer, reduced to Arc Value for each Day of Göttingen Mean Solar Time 446
III.—Showing for each Month the Mean Value of Absolute Declination (Easterly), and its Periodic Changes from the Mean of the Year .. .. ib.
IV.—Showing for each Month the Mean of the Scale Readings of the Small Declinometer reduced to Arc Value, and the Difference of the Mean thus reduced from the Mean Declination shown by the Large Declination Magnetometer.. 447
V.—Mean Value of Absolute Easterly Declination in each Month, for each Hour of Göttingen Mean Solar Time .. .. ib.
VI.—Mean of the Scale Readings of the Small Declination Magnetometer reduced to Arc Value in each Month, for each Hour of Göttingen Mean Solar Time .. 448
VII.—Mean Diurnal Changes of Declination by Large Declination Magnetometer, for each Month, the Monthly Mean being taken as the Standard .. .. ib.
VIII.—Mean Diurnal Changes of Declination by the Small Declination Magnetometer for each Month, the Monthly Mean being taken as the Standard. .. 449
IX.—Showing for the year 1847 the Mean Value of Absolute Declination (Easterly) for each Even Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean.. .. .. ib.
X.—Showing for the year 1847 the Mean of the Scale Readings of the Small Declination Magnetometer, reduced to Arc Value for each Even Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean .. 450
XI.—Showing for the year 1847 the Hours of Göttingen Mean Solar Time at which in each Month the Magnetic Declination was at its Maxima and Minima (by the Large Declination Magnetometer) .. .. ib.
XII.—Showing for the year 1847 the Hours of Göttingen Mean Solar Time at which in each Month the Magnetic Declination was at its Maxima and Minima (by Small Declination Magnetometer) 451
XIII.—The Greatest and the Least Extraordinary Position of the Declination Magnetometer, in the Simple Hourly Observations, during the year 1847 .. 452
Magnetic Horizontal Force of the Earth :—
Formula of Absolute Determinations.. 453
Table XIV.—Absolute Determinations of Horizontal Force 454
XV.—Monthly Mean Values of LM and X, with the corresponding Mean Scale Readings of Large and Small Horizontal Force Magnetometers. 457
Horizontal Force Magnetometers :—
Preliminary Remarks.. 458
Table XVI.—Mean of the Scale Readings (uncorrected) of the Large Horizontal Force Magnetometer for each Day of Göttingen Mean Solar Time 459
XVII.—Mean Temperature of Large Horizontal Force Magnetometer for each Day of Göttingen Mean Solar Time .. .. ib.
XVIII.—Mean of the Scale Readings (uncorrected) of the Small Horizontal Force Magnetometer for each Day of Göttingen Mean Solar Time 460
XIX.—Mean Temperature of Small Horizontal Force Magnetometer for each Day of Göttingen Mean Solar Time .. .. ib.
XX.—Mean of the Scale Readings (corrected) of the Large Horizontal Force Magnetometer for each Day of Göttingen Mean Solar Time 461

PAGE

Table XXI.—Mean of the Scale Readings (corrected) of the Small Horizontal Force Magnetometer for each Day of Göttingen Mean Solar Time 461

XXII.—Mean of the Scale Readings (uncorrected) of the Large Horizontal Force Magnetometer in each Month, for each Hour of Göttingen Mean Solar Time. 462

XXIII.—Mean Temperature of the Large Horizontal Force Magnetometer in each Month, for each Hour of Göttingen Mean Solar Time .. .. .. ib.

XXIV.—Mean of the Scale Readings (uncorrected) of the Small Horizontal Force Magnetometer in each Month, for each Hour of Göttingen Mean Solar Time 463

XXV.—Mean Temperature of the Small Horizontal Force Magnetometer for each Month .. .. ib.

XXVI.—Mean Scale Readings (corrected) of the Large Horizontal Force Magnetometer 464

XXVII.—Mean Scale Readings (corrected) of the Small Horizontal Force Magnetometer .. .. ib.

XXVIII.—Mean Value of Absolute Horizontal Intensity (in English Units), as obtained by means of the Corrected Readings of Large Horizontal Force Magnetometer, for each Day of Göttingen Mean Solar Time. 465

XXIX.—Mean Value of Absolute Horizontal Intensity (in English Units) by Small Horizontal Force Magnetometer, for each Day of Göttingen Mean Solar Time, 466

XXX.—Showing for each Month the Mean Value of Absolute Horizontal Intensity (in English Units), and its Periodic Changes from the Mean of the Year .. ib.

XXXI.—Showing for each Month the Mean Value of Absolute Horizontal Intensity (in English Units), and its Periodic Changes from the Mean of the Year.. 467

XXXII.—Mean Value of Absolute Horizontal Intensity (in English Units), as obtained by Large Horizontal Force Magnetometer, in each Month, for each Hour of Göttingen Mean Time .. .. ib.

XXXIII.—Mean Value of Absolute Horizontal Intensity, by Small Horizontal Force Magnetometer, in each Month, for each Hour of Göttingen Mean Time.. 468

XXXIV.—Mean Diurnal Changes of Absolute Horizontal Intensity (in English Units) by Large Horizontal Force Magnetometer, for each Month; the the Monthly Mean being taken as the Standard .. .. ib.

XXXV.—Mean Diurnal Changes of Absolute Horizontal Intensity (in English Units) by Small Horizontal Force Magnetometer for each Month; the Monthly Mean being taken as the Standard 469

XXXVI.—Showing for the year 1847 the Mean Absolute Horizontal Intensity (in English Units) for each Hour of Göttingen and Bombay Mean Time, also its Diurnal Changes from the Mean. .. .. ib.

XXXVII.—Showing for the Year 1847 the Mean Value of Absolute Horizontal Intensity for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean 470

XXXVIII.—Showing for the Year 1847 the Hours of Göttingen Mean Solar Time at which the Mean Horizontal Intensity in each Month was at its Diurnal Maximum and Minimum .. .. ib.

XXXIX.—Showing for the Year 1847 the Hours of Göttingen Mean Solar Time at which the Mean Horizontal Intensity, as shown by the Small Horizontal Force Magnetometer, in each Month, was at its Diurnal Maximum and Minimum 471

Effect of the Atmospheric Air on the Magnetic Intensity of the Earth:—

Table XL.—Mean Value of Absolute Horizontal Intensity, cleared of the effects of the External and Free Air, for each Day of Göttingen Mean Solar Time 472

PAGE

Table XLI.—Showing for each Month the Mean Value of Absolute Horizontal Intensity, cleared of the effects of External and Free Air, as well as its Periodic Changes from the Mean of the Year 473

XLII.—Mean Value of Absolute Horizontal Intensity, cleared from the effects of the External and Free Air, for each Month .. .. ib.

XLIII.—Mean Diurnal Changes of Absolute Horizontal Intensity, cleared from the effects of External and Free Air, for each Month; the Monthly Mean being taken as the Standard 474

XLIV.—Showing for the Year 1847 the Absolute Horizontal Intensity, cleared from the effects of External and Free Air, for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean .. .. ib.

XLV.—Showing for the Year 1847 the Hours of Göttingen Mean Solar Time about which the Mean Horizontal Intensity, cleared of the effects of External and Free Air, in each Month, was at its Diurnal Maximum and Minimum .. 475

XLVI.—The Greatest and the Least Extraordinary Position of Large Horizontal Force Magnetometer, in the Simple Hourly Observations, during the Year 1847.. 476

Magnetic Vertical Force of the Earth :—

Table XLIX.—Mean of the Micrometer Readings of the Vertical Force Magnetometer for each Day of Göttingen Mean Solar Time 477

Adjustments of the Vertical Force Magnetometer :—

Preliminary Remarks 478

Table L.—Diurnal Changes of Mean Monthly Scale Readings of Vertical Force Magnetometer reduced into Minutes of Arc, the Value of one turn of Micrometer being equal to 0° 5′ 0 479

LI.—Mean Micrometer Readings of the Vertical Force Magnetometer, multiplied by Co-efficients of Reduction, for each Day of Göttingen Mean Solar Time... 480

LII.—Mean of Micrometer Readings of the Vertical Force Magnetometer, reduced and corrected for Instrumental Changes, for each Day of Göttingen Mean Solar Time 481

LIII.—Mean Value of Absolute Vertical Intensity (in English Units) for each Day of Göttingen Mean Solar Time 482

LIV.—Showing, for each Month, the Mean Value of Absolute Vertical Intensity (in English Units), as well as its Periodic Changes from the Mean of the Year 483

LV.—Mean Value of Absolute Vertical Force (in English Units) in each Month, for each Hour of Göttingen Mean Solar Time .. .. ib.

LVI.—Mean Diurnal Changes of Absolute Vertical Force (in English Units) for each Month; the Monthly Mean being taken as the Standard 484

LVII.—Showing for the Year 1847 the Mean Value of Vertical Force (in English Units) for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean.. 485

LVIII.—Showing for the Year 1847 the Hours of Göttingen Mean Solar Time at which the Mean Vertical Intensity, in each Month, was at its Diurnal Maximum and Minimum in a Mean Solar Day .. .. ib.

Magnetic Dip or Inclination :—

Table LIX.—Mean Dip (as observed with Nairn's Dipping Circle) for each Day of Bombay Civil Time 486

LX.—Mean Dip (as obtained by Calculation) for each Day of Göttingen Mean Solar Time 487

LXI.—Showing for each Month the Mean Dip (as observed with Nairn's Dipping Circle), and its Periodic Changes from the Mean of the Year.. .. .. ib.

PAGE

Table LXII.—Showing for each Month the Mean Dip (as calculated), and its Periodic Changes from the Mean of the Year 488

LXIII.—Mean Dip (as obtained by Calculation) in each Month, for each Hour of Göttingen Mean Solar Time .. .. ib.

LXIV.—Mean Diurnal Changes of the Calculated Dip for each Month; the Monthly Mean being taken as the Standard 489

LXV.—Showing for the Year 1847 the Mean Calculated Dip for each Hour of Göttingen and Bombay Mean Time, also the Diurnal Changes from the Mean. ib.

LXVI.—Showing for the Year 1847 the Hours of Göttingen Mean Solar Time at which the Mean Dip, calculated in each Month, was at its Diurnal Maximum and Minimum 490

Magnetic Total Intensity of the Earth :—

Table LXVII.—Showing for each Month the Mean Value of Total Intensity (in English Units), as well as its Periodic Changes from the Mean of the Year 491

LXVIII.—Showing for each Month the Mean Value of Total Intensity, reduced for the effects of External Air; as well as its Periodic Changes from the Mean of the Year .. .. ib.

LXIX.—Showing for the Year 1847 the Mean Value of Total Intensity (in English Units) for each Hour of Göttingen and Bombay Mean Time, and its Diurnal Changes from the Mean 492

LXX.—Showing for the Year 1847 the Mean Value of Total Intensity, corrected for the effects of External and Free Air, for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean. .. .. .. ib.

Summary of the Magnetic Results :—

Diurnal Changes 493

„ Ranges 494

Periodical Changes within the Year .. .. ib.

Difference between the Day and Night Means .. .. ib.

Magnetic Disturbances :—

Preliminary Remarks 495

Table LXXI.—Showing the Mean Daily State of each Magnetic Element, during a Disturbance, compared with the Normal State.. 496

LXXII.—Showing the Effect of the Disturbances on each of the Magnetic Elements, as obtained from Table LXXI., by subtracting the Normal State from the Disturbed Mean 497

LXXIII.—Showing the Mean Effects of the Disturbances on several Magnetic Elements, compared with its Mean Effects on the Horizontal Intensity.. .. 498

LXXIV.—Times at which Disturbances were first felt, their greatest Intensity, their Duration, and Duration of their Effects.. 500

APPENDIX TO THE MAGNETICAL RESULTS.

Progressive Changes of Declination 502

PLAN
of the
GROUND and BUILDINGS
of the
BOMBAY OBSERVATORY
REMARKS
A Astronomical Observatory
B Lecture Room
C L. Magnetic Observatory
D S. Magnetic Observatory
E European assistants Quarters
F Native assistants Quarters
G Tide House
H Cook house and Out Offices
Scale 80 Feet to an In
Lithos of the Observatory Bombay

INTRODUCTION.

SITUATION OF THE OBSERVATORY.

The island of Colaba, on which the Observatories are built, is a narrow island, with a South and North direction, bending a little to the East, nearly two miles and a half in length. It is continued towards the South in a long reef, called "The Prongs," which is exposed for more than a mile at low water. The base of the Light-house is its highest point, which, according to levellings made by the Engineer Class of the Elphinstone Institution, under Professor Pole, is 47·49 feet above the level of the floor of the Tide-house, which is about the height of highest high water. The Observatory compound, or enclosure, is a little to the North and East of the Light-house. The base floor of the Large Magnetic Observatory, by the same measurements, which are presumed to be accurate to half an inch, is 19·48 feet above the Tide-house floor. The formation is greenstone trap, which decomposes into a rusty soil. There are a few mangoe and borah *(zizyphus lotus)* trees within the compound, but no other than the latter, excepting shrubs, within some distance of the Magnetic Observatory. The shore slopes gradually away, on the Western side of the island, towards coral reefs and the open Sea, and on the East slopes for some distance until it suddenly sinks into the deep water which forms the entrance to Bombay Harbour. A public road traverses the island from the Fort of Bombay to the Light-house, which bounds the Observatory compound on the West, and the Sea bounds it on the East. The Magnetometers can therefore be very little affected by accidental disturbing causes, as the presence of iron in its neighbourhood; and, as a Meteorological Observatory, it is perfectly free from the influence of hills, nearly so from the radiation of houses, and other circumstances which might vitiate the best conducted Observations. The results may, therefore, be considered as accurately those of a small island, closely connected with the land. Its Geographical position is as follows:—

Latitude.....	18°53′30″ *N.*
Longitude.....	4*h.* 51*m.* 19*s.* *E.* of Greenwich.

The height of the Barometer Cistern, above the mean level of the Sea, is 37·5 feet.

* *Note.*—The Longitude of the Observatory, as determined Trigonometrically, (Great Trigonometrical Survey,) from Madras, allowing the latter, according to the late Mr. Taylor, Hon. Co.'s Astronomer, to be in 5*h.* 20*m.* 57·28*s.* is 4*h.* 51*m.* 16·32*s.*, showing a difference of only 2·68*s.* from that as deduced from the Observations taken at the Observatory by Mr. Orlebar.

The distance between the Meridian Lines passing through the Declination Magnetometer and the Transit Instrument of the Astronomical Observatory, is 117 feet to the East; but the centre of the Declination Magnetometer is 225 feet to the North of the Transit Instrument. This position of the building makes it possible to prevent any Disturbances from iron, it being thus considerably within the Observatory enclosure.

The soil around the Observatory is tolerably even, and is of greenstone and decomposed rock of red earth, which will, therefore, act pretty equally all around. The floor is raised about a foot above the soil, and is of chunam. The walls, 20 inches thick, are of a shelly limestone, which now forms on some parts of the Bombay beach; their height is 14 feet to the eaves of the roof. The roof is tiled, and slopes to the North and South: the tiles are, no doubt, partly Magnetic, but there was no remedy; and it was considered that the great height of the roof would cause the effect of the little iron within them to be insensible. The Observatory is also ceiled, and it is lighted by nine windows (which open like folding doors); each window is glazed and venetianed. Through the centre of the roof, and dividing the wall, is a transit slit, which in the roof is closed by wooden shutters (covered with sheet copper), and in the walls by glass and venetians, as the windows.

The large Magnetic Observatory (see Plan) is rectangular, 35 feet by 30, in the interior; all the fastenings are either of copper or brass; and no iron whatever is in the structure. The pillars, on which the three principal Magnetometers stand, are of masonry (in which the stone is gypsum), and are surmounted with teak wood, 2¼ inches thick, and upon this the Instruments stand, by their own gravity. The pillars are totally unconnected with the floor, and every part of the building.

The DECLINATION MAGNETOMETER is placed under the transit slit, about one foot from the Northern interior wall of the Observatory, and its position is marked D, in the Ground Plan.

The LARGE HORIZONTAL FORCE MAGNETOMETER is on a pillar marked H (see Plan), about three feet from the East and South interior walls; and its Reading Telescope is placed on a block of teak, which is fixed on the teak top of the pedestal; thus, to whatever changes the Magnetometer might be subject, to the same its Reading Telescope would be liable.

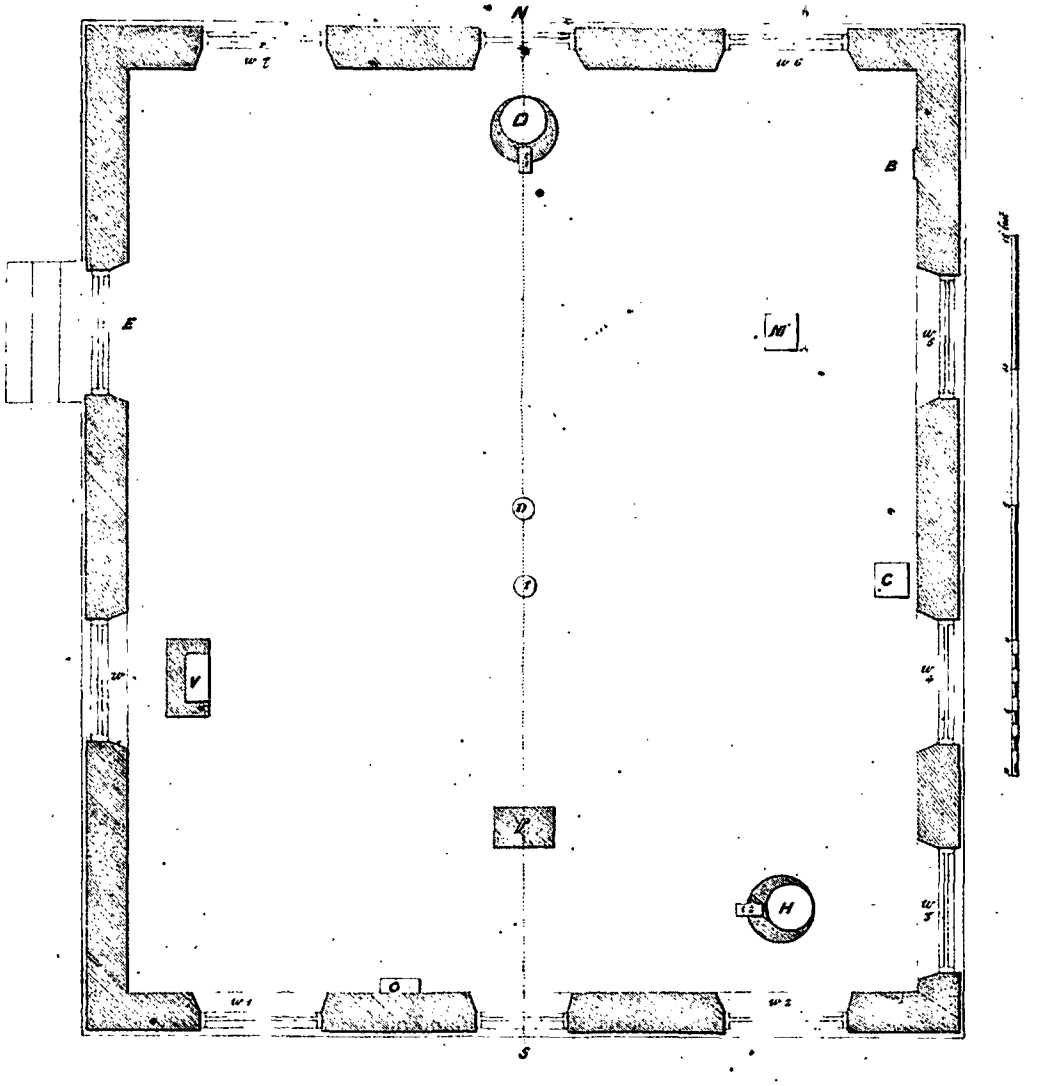
The VERTICAL FORCE MAGNETOMETER is on a rectangular pillar, whose upper surface is 36 by 18 inches; and is about 1½ foot from the Western interior wall; its position is marked V, in the Plan.

For the reception of the Small Magnetic Instruments, which were sent out by the Honorable the Court of Directors in 1844, at the recommendation of Professor Orlebar, a small Observatory was erected in June 1845, at the North-East angle of the

BOMBAY

MAGNETICAL OBSERVATORY

Ground Plan of the Large Observatory, Shewing the Disposition of the Instruments



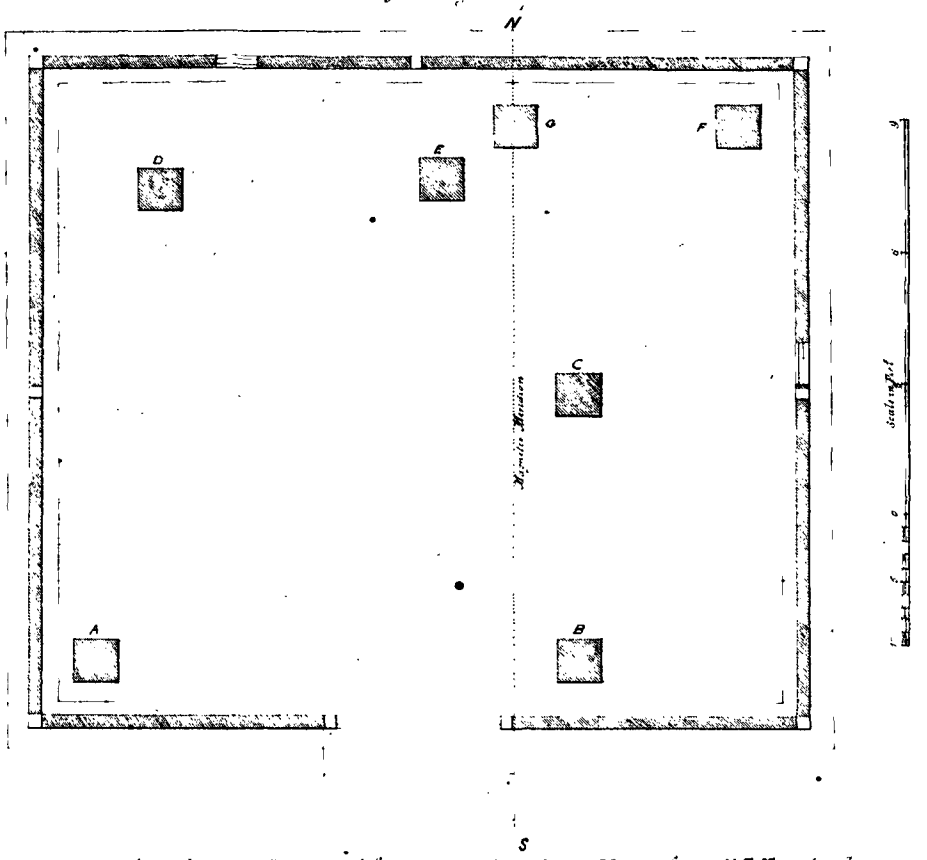
D. Large Declination, V. Vertical Force, H. Horizontal Force, D. Small Declination Magnetometers. M.S. Astronomical meridian, T. Small Transit, B. Barometer, C. Chronometer, M. Meteorological Stand, t, t1, t2. Reading Telescopes. E. Door, Ta. Table for books and Calculations, w, w1, w2, w3, w4, w5, w6, w7. Windows, O. Mean Time Clock.

The unshaded circles mark the bases of the Magnetometers, and the shaded shew the circumference of the masonry pillars in which they stand.

BOMBAY

MAGNETICAL OBSERVATORY

Ground Plan of the Small Observatory, Shewing the Disposition of the Instruments



A. Induction Inclinometer, B. Small Horizontal force Magnetometer, C. Reading Telescope of small H.F. Magnetometer,

D. Small Declination No 1, E. Reading Telescope of Decl.n No 1, F. Small Declination No 2, G. Reading Telescope of Declination No 2.

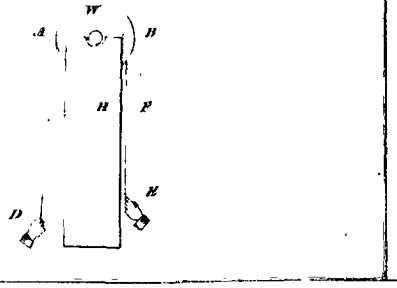


Fig. I. Introduction

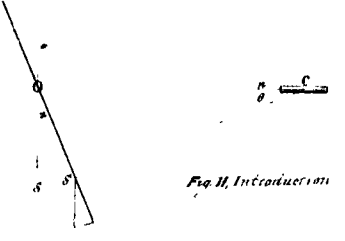


Fig. II. Introduction

Large Magnetic Observatory. The Ground Plan of this is given in Plate 2. The floor is of mud, the foundation of shell sandstone, the wall of bamboo, plastered over, and the roof of cajans. There are no windows in it; the bamboos are cut away round the top, so as to allow a cool current of air under the ceiling; and it is further kept at an equable temperature by two copper ventilators, one in the North and the other in the East wall.

INSTRUMENTS OBSERVED DURING THE YEAR 1847.

MAGNETIC INSTRUMENTS.

Large Declinometer.
Small do.
Large Horizontal Force Magnetometer.
Small do. do.
Vertical Force Magnetometer.
Induction Inclinometer.
Magnetic Dipping Circle.
Apparatus for Magnetic Intensity.

METEOROLOGICAL INSTRUMENTS.

Two Standard Barometers.
Thermometer in the air.
Wet Bulb Thermometer.
Thermometer in the ground.
Do. on the ground.
Lynd's Wind Gauge.
Actinometer.

SELF-REGISTERING INSTRUMENTS.

Osler's Wind and Rain Gauge.
Tide Guage.

The description of the Meteorological Instruments will be given in Part II., containing the Meteorological and other Miscellaneous Observations, made at the Observatory during 1847.

STAFF OF THE MAGNETIC OBSERVATORY, AND SYSTEM OF OBSERVATION.

On my taking charge of the Observatory, in February 1847, I found the number of Assistants in the Magnetic Observatory to consist of the following persons:

Serjeant J. H. DUNN, 1st Assistant.
KERU LUXIMON, 2nd ,,
DHONDOO JAGANATH, Assistant.
ANNANTA BALLALA, ,,
GUNESH NAREN, ,,
DINSHAW DORABJEE, ,,

Between the 1st of November and the 1st of December, the three last mentioned Assistants left the Observatory, (having previously given a month's notice,) they having procured situations at a higher rate of pay; but I am happy to state that the continuity of the Observations was not in the least interrupted, as I was enabled to supply their places by three Brahmin youths, who, owing to the instruction and aid afforded to them by the two Senior Assistants, were taught to observe with accuracy.

With regard to the quality of the Observations made during 1847, my immediate predecessor, Professor Orlebar, left us in possession of a most perfect system of carrying out Magnetic and Meteorological researches, which I have strictly followed.

OBSERVATIONS.

In the Magnetic Observatory, on my taking charge, the whole of the Magnetometers, Large and Small, as well as the Meteorological Instruments, and the state of the weather, were observed two-hourly, day and night, except on Sundays; on Mondays, Wednesdays, and Fridays of every week, from 7 to 11 o'clock in the morning, and from 3 to 7 o'clock in the evening, Magnetic Observations were made every five minutes, and also at every half-hour from 11 to 3 o'clock on the same days; and, in order to ascertain if the Large and Small Magnetometers acted together, the latter were observed at the same time by a second Assistant.

Besides these, Daily Observations were made of the Horizontal Intensity, and Magnetic Dip; Self-registered Observations of the Winds, and Tides of the Sea; and, in the proper season, Hourly Observations of the fall of Rain. On Tuesdays, Thursdays, and Saturdays, from January till the end of May, Observations of the Actinometer were taken also Hourly.

In May 1847, in consequence of a Circular from Sir John Herschell, forwarded through the Government, the Observations that were made with the Actinometer were discontinued, Sir John Herschell having found a defect in the Instrument which rendered the results given by it useless. The setting aside this Instrument enabled me to change the two-hourly Observations to one-hourly, on the 1st of June; this plan of Observing is still continued, many advantages have been derived from it, as we are enabled to detect Magnetic Disturbances much earlier than by the larger interval.

The whole of the Observations are under my immediate direction, and I am responsible for every part of the work. In case of my absence, Mr. Dunn is empowered to act as my representative.

DECLINATION.

This has been observed Hourly, to the end of the year, by two Instruments, the Large Declinometer and the Small Declinometer.

The LARGE DECLINOMETER was obtained from GRUBB, of Dublin, and is of exactly the same construction as that described in the Report of the Committee of the Royal Society, for 1840.

The SMALL DECLINOMETER is the same as the Unifilar Magnetometer, described in page 60, of Lieut. Riddle's "Magnetical Instructions," with the exception that it has no glass bell over it.

LARGE DECLINOMETER.

The *Dimensions of the Bar Magnet*, which has been in use, are in parts of a foot, and grains :—

Length	=	1·25 feet.
Breadth	=	0·0715
Thickness	=	0·0208
Weight	=	62030 grains, Troy.

The Magnet is suspended by 50 fibres of untwisted silk.

The *Value of each Scale Division* was determined by Professor Orlebar, in April 1845 (see "Introduction," 1845-46), and it is *one integer of Scale Reading* = 6·505 = 6·841.

The *Zero Point of the Declination Bar* was also determined by Professor Orlebar, in April 1845, it is as near as possible 25·1719.

The *Readings of the Scale* are made on the central wire of the Transit Instrument, which is kept in the true Meridian by Astronomical Observations; each Observation becomes, therefore, an Absolute Determination of the Magnetic Declination.

The Readings are, of course, (at first) made in Scale Divisions; but by the assistance of a Table, the observer immediately reduces them to Absolute Declination.

This Table was constructed during Professor Orlebar's superintendence of the Establishment, by Serjeant Dunn and Keru Luximon, from the formula:

$$\text{Absolute Declination in Arc} = (R - 25{\cdot}172)\ 6{\cdot}841 \times 1{\cdot}0035,$$

in which R is the Reading of the Scale, at any time.

The Torsion Force was determined by Professor Orlebar, in April 1845: it is $1 + \frac{H}{F} = 1{\cdot}003490$.

In order to destroy internal radiation as much as possible, the interior of the box in which the Magnet is suspended, and its glass covers, were gilded; the whole was carefully covered with white cloth; and the edges of the box upon the marble slab, as well as the glass cover over the Torsion Circle, were filled up with bees-wax; this was completed by Serjeant Dunn, at the desire of Professor Orlebar, in April 1845.

Small Declinometer.

The box of this Instrument is embedded in white lead, on a stone pillar, 4 feet high, in the North-West angle of the Small Observatory; the Magnet is a solid cylinder, marked A·54, and is suspended by a silk thread of two fibres: its dimensions are,

Length = 2·990 inches.
Diameter = 0·30 „

The distance from the Scale to the Mirror = 65·76 inches.
The Value of one integer of the Scale Reading = 5′13″·8 = 5′.23

With this latter Value a Table is formed, showing the Value of different Readings of the Scale, in minutes of Arc. And in order that the true Declination might be shewn by this Instrument, the Readings of the Large and Small Declinometers were compared for two and seventy hours, on the 24th, 25th, 26th, and 28th June 1846, by Professor Orlebar. The result was, that when the Scale Reading of the Small Declinometer was 30·0, the corresponding Declination was 13′.42 East. Tables were, therefore, calculated, and hung up, for the reduction of each Scale Reading, and have been used throughout this year.

The Torsion Force of this Instrument was determined once every month, for the Absolute Determination of the Horizontal Intensity; the Values of $1 + \frac{H}{F}$ are as follows:—

	$1 + \frac{H}{F}$	Magnet.		$1 + \frac{H}{F}$	Magnet.
January.....	1·0006	A·54	July	1·0008	I·11
* February	1·0013	I·11	August	1·0009	I·11
March	1·0011	I·11	September....	1·0008	I·11
April.....	1·0010	I·11	October.....	1·0011	I·11
May	1·0011	I·11	November....	1·0013	I·11
June.....	1·0009	I·11	December....	1·0013	I·11

∴ Mean of the year, 1·0010

The Torsion Force being so very small, the Scale Readings are not corrected for it.

As the Instrument was also used for the Absolute Determination of Horizontal Intensity every day, the Scale Readings were sometimes affected in a slight degree in consequence of handling the Magnet, but this never altered its position more than about a minute of Arc. The Scale Readings are not corrected for these irregularities, as the Instrument is only considered a secondary one.

To shew this more clearly, the following Table is derived from the Daily Observations of each Declinometer: the numbers show the Mean Monthly Declination in Arc Value:—

1847. MONTHS.	Mean Easterly Declination by		Difference.
	Large Declinometer.	Small Declinometer.	
January	0°13′9	0°14′4	-0·5
February.....	·14·1	·13·5	0·6
March.....	·14·2	·13·5	0·7
April	·14·1	·14·0	0·1
May.....	·13·9	·14·8	-0·9
June.....	·13·5	·14·7	-1·2
July	·13·4	·14·4	-1·0
August.....	·13·8	·14·6	-0·8
September	·13·8	·14·8	-1·0
October	·14·5	·15·5	-1·0
November.....	·14·5	·16·0	-1·5
December.....	·14·5	·16·0	-1·5

* On the 4th February 1847, the Magnet A·54 was taken out, and the Magnet marked I·11 was suspended in its place, where it remained throughout the year.

Length of I·11 = 2·46 inches.
Breadth = 0·30 „

HORIZONTAL FORCE.

The Diurnal Changes of the Earth's Magnetic Horizontal Force have been observed Hourly with two Instruments. One is the Large Horizontal Force Magnetometer, in the Large Observatory, the other is the Small Horizontal Force Magnetometer, in the Small Observatory.

The LARGE HORIZONTAL FORCE MAGNETOMETER, by GRUBB, of Dublin, is of the same construction as that which is described in the Report of the Royal Society for 1840; and the notations here used are the same as those used in that Report.

Throughout the year 1847, the Instrument remained under the adjustments of the preceding year.

The dimensions of the Magnet are as follows:—

Length	= 1·25 feet.
Breadth	= 0·072 ,,
Thickness	= 0·021 ,,

The Arc Value of one Scale Division was determined by Professor Orlebar (in 1845), and is, *one integer of the Scale* = 10′55″·99 = 656″ = 10′·933.

The grooved wheel, round which the silver suspension wire is passed, is marked No. 12. and its diameter, which was measured by Keru Luximon, in 1845, is 0·61465 inches.

The distance of the extremities of the suspension wire on the Micrometer headed screw, above, as measured by Professor Orlebar, is 0·62985 inches.

The length of the suspension wires, which was also measured by Professor Orlebar, is 30·33 inches.

The weight of the Magnet, with collimator, stirrup, and grooved wheel, is 7050 grains; hence,

$$G = w \frac{a \times b}{L}$$

$$= 7050 \frac{0{\cdot}61465 \times 0{\cdot}062985}{30{\cdot}33} \; gr.$$

From several Observations, made by Professor Orlebar (in 1845), he found that the Magnet of the Large Declinometer had the effect of decreasing the Readings of the Large Horizontal Force, by 0·027 of its Scale Reading: 0·027 is, therefore, required to be added to each Reading of the Scale of the Large Horizontal Force Magnet, to clear it of the effects of the Declination Magnet.

In February 1846, Professor Orlebar found it necessary to obtain a new position for the Magnet, as its Readings had become nearly at the extremity of one end of the Scale. In the usual method of approximation, it was ascertained that when the Torsion Circle read 66°38′,

The Scale Reading was $\left\{ \begin{matrix} 4{\cdot}42 \\ 4{\cdot}39 \end{matrix} \right\}$ when the $\left\{ \begin{matrix} \text{magnet} \\ \text{weight} \end{matrix} \right\}$ was suspended.

Therefore, the Plane of Detorsion coincided with the Magnetic Meridian, nearly, when the Torsion Circle read 66°38′.

$$\text{Now } \tan v = \frac{a}{k} = \frac{0{\cdot}00031443}{k}$$

$$\text{if then } k = 0{\cdot}001,$$

$$v = 72°21'$$

And, therefore, in order to make $k = 0{\cdot}001$, the Reading of the Torsion Circle must be 336°38′—72°21′=264°17′ when the Magnet is brought perpendicular to the Magnetic Meridian

The Torsion Circle then reading 336°38′, and the weight being attached, the Reading of the Scale was found to be 10·845, and the Plane of Detorsion perpendicular to the Magnetic Meridian. The Torsion Circle being then turned to 264°17′, it was necessary to obtain the same Reading for the Magnet when perpendicular to the Magnetic Meridian, in order that $k = 0{\cdot}001$: this could only be effected by turning the Mierometer screw, and thereby altering the interval of the wires above. This was done accordingly, and the Instrument still remains under these adjustments; so that from February 1846,

k=0·001, and increasing Readings denote increase of Force.

The Small Horizontal Force Magnetometer

Is of exactly the same description as the *Bifilar*, described in Lieut. Riddle's Magnetical Instructions; and all its adjustments were made by Serjeant Dunn and Keru Luximon; the notation used being the same as that of Lieut. Riddle's.

The suspended Magnet is a hollow cylinder, marked H·36, and its dimensions are as follows:—

Length	= 2·99 inches.
External Diameter	= 0·30
Internal do.	= 0·24

The distance of the Mirror from the Scale, + ½ the thickness of the Mirror, is 62·2 inches, therefore the angular Value of one Division of the Scale, is

0°53	in Arc.
0·00161	in parts of Radius.

The Magnet regularly loses a large quantity of its Magnetism, so that it becomes necessary, in consequence of the rapid decrease of the Scale Readings, to adjust the Instrument every year.

At each adjustment, the co-efficient of reduction, or the Value of k, is made as near as possible to 0·001.

From the commencement of the year to the 6th of April, the Instrument remained under the adjustments of the last year; on the 6th of April the Instrument was again adjusted.

6th April 1847. The Instrument having been opened, the Magnet was found to be rusted, and the glass suspension tube to be loose in its socket; the Magnet was freed from rust, and the tube firmly cemented to the socket by sealing-wax varnish.

7th April. The Instrument underwent a thorough adjustment:—

1*st.* The single suspension silk thread having been attached, the weight was suspended, and the Torsion destroyed; the weight was then removed, and the Magnet suspended in its place. The Scale and Mirror were adjusted; the co-efficient of Torsion determined; and the Scale Reading of the Magnet taken:

Co-efficient of Torsion	= 1·00113
Scale Reading of the Magnet	= 29·06

2*nd.* The Magnet was vibrated in such a way, that the Arc of Vibration never exceeded 1°; the time of one vibration *(t)* was determined from 300 vibrations, and found to be 2″442.

3*rd.* With the assumed Value of $k = 0{\cdot}001$, the corresponding Values of v and t' for the Double Suspension were calculated, and found to be

v	= 57°53
t'	= 1″656

The Magnet was now suspended by the double suspension; the Scale Reading was adjusted to 29·06 nearly, and the time of one vibration determined. When this did not coincide with the calculated Value, the upper interval of the suspension threads was increased, or *vice versâ*, until the time of one vibration nearly coincided with 1·656. After several trials, in this way, the following Value was considered a close approximation:—

Reading of the Torsion Circle = 60°10′
" " Scale = 29·35
Time of one Vibration or t' = 1·657

From this Value of t' (1·657) the actual Value of v and t'' was calculated, and found to be :—

v = 58°04′
t'' = 3·098

4th. The Torsion Circle was turned through 90° + 58°04′ = 148°04′, and adjusted to 360° + 60°10′ — 148°04′ = 272°06′; the Magnet now became in a position at right angles to the Magnetic Meridian; and the Mirror was turned and adjusted, the Magnet being handled with the greatest care.

5th. In this position the time of one vibration was determined, and found to be 3·112; this not coinciding with the calculated Value, the Torsion Circle was further turned, until both agreed. The following were the times of one vibration, at different Readings of the Torsion Circle.

Torsion Circle.	Time of one Vibration.
272°00′	t'' = 3·112
272·05	t'' = 3·111
272·10	t'' = 3·106
272·20	t'' = 3·098

This last Value of t'' exactly coinciding with that which was calculated, the Instrument was finally fixed in this position.

6th. The Value of k, calculated from this, was found to be 0·0009927. The adjustments were now fully completed, and the results were—

k = 0·000993
Scale Reading 34·75
Temperature of the Magnet 87°2 Fahr.
Increasing numbers denote an increase of Force.

At the commencement of the year, the Instrument remained under the adjustments of the preceding year, so that—

From the 1st January to the 6th April (1847), k = 0·000981
From 7th April to 31st December (1847) k = 0·000993

HORIZONTAL FORCE MAGNETOMETER, AND ITS IRREGULARITIES.

The principal use of this Instrument is to determine the Diurnal and Secular Changes in the Earth's Magnetic Horizontal Force.

In this Instrument the Magnetic Bar is forced to a position at right angles to the Magnetic Meridian, by turning the arms of the Torsion Circle, and the upper extremities of the suspension wire move through a greater angle than the lower extremities, consequently the wires are no longer vertical, and the Magnet, together with its appendages, will be raised. The Forces producing

equilibrium will, therefore, be the suspended weight struggling to attain the lowest point, and the Earth's Magnetic Horizontal component of Intensity acting on the free Magnetism of the Bar.

If v be the excess of the angular motion of the arms of the Torsion Circle, or upper extremities of the wire, over u, that of the lower extremity, or Magnetic Bar, in moving the Magnet from the Magnetic Meridian: the equation of equilibrium in this case, has been proved to be:—

$$m \text{ X } \sin u = \text{W} \frac{a\,b}{l} \sin v$$

$$= \text{G } \sin v. \quad \text{G being} = \text{W} \frac{a\,b}{l}$$

m, X, W, a, b, and l, being respectively the Magnetic Moment of the Bar, the Horizontal Force of the Earth, the weight suspended, the length and the upper and lower intervals of the suspension wire: when the Magnet is at right angles to the Meridian $u = 90°$

$$\therefore m \text{ X} = \text{G} \sin v.$$

Now if m, X, or G should vary, it will be manifest that the equilibrium will be destroyed; therefore,

$$\frac{\delta m}{m} + \frac{\delta \text{X}}{\text{X}} = \frac{\delta \text{G}}{\text{G}} + n\ a\ \cot v.$$

n being the alteration in the Scale Reading from the change in m, X, or G; and a the Arc Value of one Scale Division in parts of radius.

It has been found, from the experience of several years' Observations, that all the small Magnets, furnished to this Observatory, are constantly losing their Magnetism, from day to day, unconnected with any effect of temperature. This is not the case with the large Magnets in use in the Large Magnetic Observatory, for all of them have retained their Magnetism unchanged; and it is very probable that if any change has taken place, it is rather an increase than a loss of Magnetism, though the increase is next to nothing compared with the loss of Magnetism in the small Magnets.

Professor Orlebar, from his experiments (in 1845-46), concluded that the temperature of the atmosphere, in its ordinary state, had no effect on the Magnetic Moment of the Magnets. But afterwards, when the improved method of observing the *Horizontal Intensity* was established by him, at the commencement of 1847, those Observations, at the end of the year, compared with the Scale Readings of the Horizontal Force Magnetometers, proved that the temperature had an effect on the Reading of the Instruments, even under ordinary circumstances.

A remarkable phenomenon, in the working of the two Horizontal Force Magnetometers, has come under our notice in this Observatory, where both Instruments are always in operation, and their Co-efficients of Reduction are exactly the same. The theory of their adjustment proves that their Diurnal March should, therefore, be exactly simultaneous; notwithstanding, experience proves that their Diurnal Curves are not exactly alike. Professor Orlebar directed his attention to this subject, but was obliged to leave for Europe, which prevented him from detecting the real cause.

The real cause of this anomaly was first discovered on the 6th December, this year (1847), in the following manner: The day was very dry, as the depression of the Wet Bulb at noon was 21°0, and up to this time the Curves of both the Instruments were nearly alike, but as the day closed, the depression of the Wet Bulb rapidly decreased, and by 4 P. M., Bombay Mean Time, it was only 7°0 During this interval, the Curves of both the Large and Small Horizontal

Force Magnetometers were quite contrary to one another: the Large Instrument had attained its *minimum*, but the Small Instrument, at this time, attained its *maximum*.

The Large Horizontal Force Magnet is suspended by a silver wire, passing round a grooved wheel, which wire has its two extremities fastened into the suspension roller; but the Small Horizontal Force Magnet (cylinder) is suspended by a silk thread, passing round a grooved wheel, and fastened like that of the Large Instrument. Therefore it is evident that while the *silver wire suspension* of the Large Magnet remains unaffected by Hygrometric Changes, the *silk thread suspension* (from its nature) of the Small Magnet is constantly affected by these Changes. The observed anomaly must therefore be due to the Hygrometric Changes, as both Observations and Calculations have established this fact beyond any further doubt. In Lieut. Riddle's Instructions, no mention of the Hygrometric effect on the suspension thread of the Small Horizontal Force is made, from which it is inferred, that this subject must have escaped his notice; though, probably, in other Observatories, where the Small Horizontal Force Magnetometers are in use, the effect of moisture on the silk suspension thread is allowed for, if not, the results obtained from the Instrument will be quite erroneous.

With respect to the suspension wire of the Large Magnet, and the suspension thread of the Small one, no allowance appears to have been hitherto made for a peculiar twist which is produced in them by remaining, for a certain lapse of time, in one position: it is considered, that owing to this cause, the small rise in the Readings of the Large Horizontal Force takes place.

From the foregoing considerations it will be evident, that in order to produce the true Values of the Changes in the Horizontal component of the Earth's Magnetic Force, it is necessary to make the following allowances:

1st. Allowance for the regular decrease or increase in the Moment of the Bar.
2nd. „ for the decrease or increase in the Moment of the Bar on account of Changes in Temperature.
3rd. „ for the effect of moisture on the suspension threads.
4th. „ for the regular loss in the Torsion of the suspension thread.

These corrections are discussed in the following pages.

TEMPERATURE CORRECTIONS.

Large Horizontal Force Magnetometer.

It is allowed by all Magnetists, that a Magnet subjected to the varying influence of temperature, alters its Magnetism in proportion to the Changes of Temperature of the Magnet.

In the experiments that Professor Orlebar instituted for the determination of this Element, in this Observatory, he partially failed; and unfortunately, the cause of failure was not discovered till after his departure for Europe. He, therefore, considered that the Readings of the Horizontal Force Magnetometer were uninfluenced by the Changes in its Temperature, (vide his Introduction for 1845, pages XVIII. to XLVIII.)

From the *Intensity Observations*, made in 1848, it was discovered, however, that the Instrument is subject to the influence of temperature: this will be distinctly seen from the following

Table, in which the Readings of the Horizontal Force Magnetometer, at different Temperatures, reduced to a Standard Value of Absolute Horizontal Intensity, are given :—

The number of Observations.	Large Horizontal Force Magnetometer.	
	Temperature of the Instrument.	Scale Reading corresponding to $X = 7{\cdot}050$
		Scale.
1	71°5	23·61
2	72·3	24·52
1	78·5	22·70
4	79·3	22·29
15	80·3	21·99
25	81·4	21·75
30	82·2	21·40
30	83·3	21·31
22	84·4	21·87
42	85·5	21·38
27	86·4	20·95
39	87·2	20·84
10	88·1	20·81
13	89·3	20·30
4	90·2	19·84

This decrease in the Scale Reading for the increased temperature of the Instrument, cannot be owing to any thing but the Temperature itself: the Mean decrease of the Scale Reading, for an increase of 1° of Temperature, was found to be—

$$q = 0{\cdot}20$$

It will be necessary, now, to show what can be gleaned from the Observations of the past year, and Professor Orlebar's researches.

Professor Orlebar, at first, compared the Curves of the Horizontal Force Magnetometer on different days, with one another, and found, "that the Temperature correction, whatever the co-efficient might be, is never of such an amount as to disturb, greatly, the *Daily Curve*." This comparison was made for a few days in August, during which month the Range of the attached Thermometer is very small; but even if the whole year had been compared in that way, no clue of the effect of temperature would be found.

In the following Table the Monthly Mean Ranges of the Scale Reading of the Large Horizontal Force Magnetometer are given, along with the Monthly Mean Range of the attached Thermometer, for 1847 :—

MONTHS, 1847.	Monthly Mean Range of Large Horizontal Force Magnetometer, uncorrected.	Monthly Mean Range of Thermometer of Large Horizontal Force Magnetometer.	Difference of Temperature at the times of Maxima and Minima of Scale Reading of Horizontal Force Magnetometer.
	Scale.		
January	1·50	7°3	−1°7
February	1·41	6·6	−0·5
March	1·55	5·8	−0·3
April	1·57	4·9	+0·4
May	1·54	4·3	+0·2
June	1·45	2·4	+0·1
July	1·42	3·0	+0·1
August	1·49	4·0	+0·5
September	1·41	3·5	+1·1
October	2·06	5·0	+1·5
November	1·78	6·7	−0·6
December	1·67	7·3	−0·4

In the above Table the Mean Range of the Scale Reading is nearly the same for all the months, but the Mean Range of the Thermometer is very different, for different months. Now, if only these two Ranges are taken into account, it would go to prove that the Changes of Temperature have no effect on the Scale Reading; but, on a little consideration, it will be seen, that the Maxima and Minima of the Scale Reading, unfortunately, do not occur at the times of Maxima and Minima of the attached Thermometer, but take place at those particular times in the day when the Temperature is nearly the same. Therefore, it will be the difference of this Temperature which must affect the Range of the Scale Reading, and this difference, from the above Table, appears to be generally very small. Hence it is evident that this method will never detect the effect of Temperature on the Large Horizontal Force Magnet.

10*th April* 1845.—Observations were made by Professor Orlebar to determine the effect of Temperature on the deflecting power of the Large Horizontal Force Magnet, by deflecting the Magnet of the Large Declinometer with it, at the distances of three and five feet.

The Bar Magnet of the Large Horizontal Force was placed in a copper vessel containing water, and one of Lloyd's Thermometers was placed on this Magnet; Serjeant Dunn and Keru, by turns, took the Scale Reading of the Deflected Magnet, or regulated the supply of Temperature.

The full investigation of these Experiments is given in the Introduction to the Magnetical and Meteorological Observations for 1845.

Inconsistencies were discovered in these deductions; and in order, therefore, to obtain a correct Value of q it seemed best to select those Scale Readings which, on inspection of the series, appeared as most probably correct, from among those of the Temperatures which were at considerable intervals from one another. The Value (q) was then deduced as follows:—

10*th April* 1845.

Temperature corrections from Observations considered as most probably correct.

	Distance 5 Feet.				Distance 3 Feet.			
	Thermometer ascending.		Thermometer descending.		Thermometer ascending.		Thermometer descending.	
	Temperature.	Scale Reading.	Temperature.	Scale Reading.	Temperature.	Scale Reading.	Temperature.	Scale Reading.
Most probable correct Readings.....	105°2 83·9	12·30 12·20	104°7 63·7	12·30 12·12	107°0 72·3	3·65 3·27	109°0 77·0	3·53 3·43
Difference...	21°3	0·10	41°0	0·18	34°7	0·38	32·0	0·10
Assumed Readings for no Deflection		21·85		21·86		21·87		21·87
Deflection produced in Scale.....		9·55		9·56		18·22		18·34

From these Observations, the Values of q determined were as follows:—

Deflection Bar at the { Distance 5 feet.. { Thermometer ascending q = 0·00049 ; descending q = 0·00046 ; 3 feet... { ascending q = 0·00059 ; descending q = 0·00017

It seemed impossible to account for the unequal Values of q in the foregoing investigation, on the supposition that free Magnetism varies with the Temperature only; for there can be

but little doubt of the accuracy of each particular Observation. And with the view of placing this point beyond all doubt, the following series were obtained, by taking the Mean of a number of Observations:—

Distance 5 Feet.				Distance 3 Feet.			
1 Ascending Series.		2 Descending Series.		3 Ascending Series.		4 Descending Series.	
Mean Temperature.	Mean Scale Reading.	Mean Temperature.	Mean Scale Reading.	Mean Temperature.	Mean Scale Reading.	Mean Temperature.	Mean Scale Reading.
100°4	12·30	100°4	12·25	100°0	3·65	108°3	3·53
91·5	12·31	90·4	12·19			99·3	3·48
		80·6	12·15	80·1	3·44	89·9	3·48
		68·7	12·13	73·9	3·37	81·7	3·46
		59·2	12·13	59·6	3·35	67·9	3·41

According to the first series the Value of q would have been both very small, and erroneous, being nearly a fifth of the Value deduced in the above example: this by itself proves what little reliance can be placed on the Values of q, determined from taking a few arbitrary Temperatures.

The Values of q, determined by Professor Orlebar, from this Table, were as follows:—

Deflecting Magnet at the	Distance 5 feet	Temperature ascending		q = nearly nothing	Temperature between 100° and 90°
		„	descending	q = 0·00060	100° „ 90°
				= 0·00044	90 „ 80
				= 0·00016	80 „ 70
				= 0·00000	70 „ 60
	„ 3 feet	„	ascending	q = 0·00059	100 „ 80
				= 0·00059	80 „ 70
				= 0·00007	70 „ 60
		„	descending	q = 0·00019	110 „ 100
				= 0·00000	100 „ 90
				= 0·00024	90 „ 80
				= 0·00012	80 „ 70

Now these results are more incongruous than they were before. It seems, therefore, impossible to avoid concluding that some cause, other than that of Temperature, changes the Magnetism of the Bar Magnet.

Professor Orlebar having projected these Values in Curves, found that the Curve of series descending (marked 2 in the above Table) was so near a straight line, that he had no hesitation in assuming it to be very nearly a true representation of the Changes in the Magnet, caused by the Temperature only.

If this conclusion be correct, the formulæ he obtained from these series are also correct—

$$\frac{\Delta m}{m} = 0{\cdot}00001\ (t-64°)\ (t-65°)$$

Dissatisfied, however, with results that harmonised so ill with those published elsewhere, he resolved to heat the Magnet, whilst it remained suspended in the usual manner. He, therefore, on the 19th November 1845, placed four small copper vessels, containing live charcoal, in the box of the Magnetometer; but these not raising the Thermometer sufficiently, a large copper vessel, also containing live charcoal, was placed under the Magnet. It is very probable that this last vessel heated the Magnet much quicker than the Thermometer indicated. In the Introduction to the Observations of 1845, the whole experiment is fully detailed; and from that it appears, that a heat which increased the Thermometer 3°, lowered the Scale Reading of the Magnet 11·50 (Scale Divisions), being nearly three times the amount of its ordinary Diurnal Change. Under any circumstances it is quite impossible to account for this, by any supposition of the decrease of Force varying with the increase of Heat: it is evident that it must be some function of the Velocity.

The following is a short sketch of the Experiments made by Professor Orlebar on the 19th November 1845:—

The Magnet of the Large Horizontal Force Magnetometer was heated, whilst it remained suspended in the usual manner, in the box of the Magnetometer.

DATE, 1845.	Time.	Large Horizontal Force Magnetometer.		Small Horizontal Force Magneto-meter.	REMARKS.
	Göttingen Mean Time.	Tempera-ture.	Scale Reading.	Scale Reading.	
	H.M.				
Nov. 19th	14·21	82°6	24.47	1·85	
„	·23	82·9	24.39	1·85	Four copper boxes, containing live charcoal, were placed within the Magnetometer box, at such distances from the Magnet and Thermometer that the two might be heated very little, except by conduction of air.
„	·28	83·2	23·92	1·80	
„	·32	83·8	24·01	1·79	
„	·44	85·2	Scale out	1·68	The temperature in the former experiment having increased slowly, and it promising no results, a copper vessel, longer than the Magnet, and 4 inches broad, was placed immediately under the Magnet. The Scale soon went out of the field of view.
„	·47	87·6	Scale out	1·69	
„	·55	88·3	12·45	1·68	Scale readable.
„	·55	88·5	13·35	1·68	
„	15·00	88·6	14·94	1·67	
„	·10	89·0	16·41	1·70	
„	·20	89·0	19·67	1·80	
„	·30	88·4	21·21	1·84	
„	·40	87·9	22·07	1·82	
„	·50	87·4	22·65	2·00	
„	16·01	86·8	23·21	2·04	
21st					The Bar seemed to have perfectly recovered its Magnetism this day.

The Change apparently increasing with the velocity of heating; the Changes, therefore, in the former experiments, appear to be consistent enough with the published Observations, as in them Professor Orlebar heated the Magnet comparatively slow, in order to make them as consistent as possible with natural Temperature. Without any further discussion of this subject, which had been submitted to a more satisfactory examination, during the year 1846, Professor Orlebar considered it sufficient that the experiments on the 19th November 1845 fully confirmed the Value of $q = 0$.

Under the foregoing circumstances it is very difficult to determine whether the Temperature does or does not affect the Magnetism of the Bar, under ordinary circumstances. All experiments and comparisons with the actual Observations of Absolute Horizontal Intensity, hitherto made, indicate that Temperature does affect the Magnetism of the Bar; and the only difficulty that now remains to be determined, is the probability that the correction, with the observed Scale Reading of the Horizontal Force Magnet, is even under ordinary circumstances some quantity.

Let e be the Temperature effect on the Scale Reading of the Horizontal Force Magnet,

v the velocity of heating;

Then, by former experiments—

$$e = \phi(v)$$

$$\frac{de}{v} = \phi' v$$

$$\therefore \left(\frac{de}{v}\right)_o = (\phi v')_o$$

But if $v = o$, $\phi'(v)$ is not always $= o$, and it may be *some quantity* for the Magnet of the Horizontal Force Magnetometer, and if so, it should be determined from Observation.

The following Table will give some idea of the above conclusion. This Table is formed from the former experiments and comparisons; and the *effects of Temperature* are given in terms of the Scale Reading of the Horizontal Force Magnetometer, by dividing the Mean Value of q (as determined by experiments) by the Co-efficient of Reduction :—

Particulars.	Velocity.	Value of q.	Temperature effect on the Scale Reading of the Large Horizontal Force Magnetometer.
1848.—The Temperature effect determined by comparison between the observed Horizontal Intensity, and the Scale Reading of the Large Horizontal Force Magnetometer.	Under ordinary circumstances	——	Scale. ..... — 0·20
The same for 1847.	„ „	——	.... — 0·32
10*th April* 1845.—The Magnet of the Large Horizontal Force Magnetometer deflected the Declination Magnet: q deduced from the Mean Deflections.	A little more than under ordinary circumstances; the Magnet was heated, though slowly, to produce Deflections for different Temperatures.	Varying between 0·00000 and 0·00060	Varying between 0.00 0—·60
19*th Nov.* 1845.—The Magnet suspended in its usual position in the Magnetometer, and heated by live charcoal, contained in copper vessels being placed in the box.	Very great. The Thermometer in this case must not be considered a true measure of the heat in the Magnet, as the former must have been heated much sooner than the latter.	——	The Scale went out of the field of view, and did not return back for upwards of 6 minutes.

This Table shows that $\left(\frac{de}{v}\right)_o$, or the Temperature correction, is some quantity, even, under ordinary circumstances, though it is a function of velocity; and the exact quantity of this correction, for ordinary circumstances, is not very easy to determine : to do so will, perhaps, require two or three years' further Observations. For the present, however, we have assumed—

$q = 0{\cdot}00030$, or $-0{\cdot}30$ in Scale Reading of the Large Horizontal Force Magnetometer.

As this quantity is not fully established, it was considered best not to reduce all the simple Hourly Observations of 1847, but only the Daily and Hourly Means of each Month; these, together with the Absolute Horizontal Intensity deduced from them, are given in the results.

SMALL HORIZONTAL FORCE MAGNETOMETER.

Temperature Correction.

In 1845 Observations were made by Professor Orlebar to determine the effect of Temperature on the Magnet (Cylinder H·36) of the Small Horizontal Force Magnetometer.

The Magnet of the Small Horizontal Force Magnetometer was placed at 2 feet distance from the centre of the Small Declinometer, in which its Collimator Magnet was suspended, and the Temperature, ranging from 35°6 to 67°0, taken to the number of 85 consecutive Observations; but as the greatest difference produced in the Scale Readings was irregular, to the amount of 0·06 of the Scale, the Observations were considered perfectly useless. A short time afterwards two and twenty Observations were also taken, and were attended with the same result.

The Small Horizontal Force Magnet was therefore removed to a distance of 1·2 feet, and the Observations were made in the same continuous manner as for the Large Horizontal Force series.

The usual Deflection, at the distance of 1·2 feet, was 2·43 (of the Scale). The Temperature was at first lowered from 66°2 to 55°2, then gradually increased to 101°0, and again cooled down to 79°5; the number of Observations taken were altogether 450; and the time occupied in the experiment was 38 minutes: the Change in the Declination during the experiment was very small, and that was slightly an increase.

During all the Range of Temperature, the Deflection never differed actually more than 0·07 (of Scale), and allowing for a slight increase of Deflection, and of Horizontal Force, both of which seemed to be on the increase, it might be considered as something less; and therefore it was thought quite safe to assume for this Magnet also—

$$q = o.$$

During the foregoing experiment, the lowest Temperature indicated by the Thermometer was 55°2, and the highest Temperature 101°0; therefore the Range of Temperature was nearly 56°0; the correct Value of q will thereby be nearly—

$q = \frac{0{\cdot}07}{2{\cdot}43} \times \frac{1}{56^\circ} = 0{\cdot}00051$, or nearly 0·51, in Scale Reading of the Small Horizontal Force Magnetometer. This Value of q, though slight, *prima facie*, is not really so when the Scale Readings of the Small Horizontal Force Magnetometer are taken into account.

This Value, however, as was afterwards found out, is not correct, the real Value being nearly $\frac{1}{4}$ of this, so that a real change in the Deflection, produced on this account, would have been only 0·02 for the change of 56°0 of Temperature: this quantity is too slight for an observer to detect. Velocity in this case appears to have been acting, but still the Deflection produced seemed to be inconsiderable.

The two following important points have been gained from Professor Orlebar's experiments, to determine the effect of Temperature on the Magnets:—

1st. To obtain the Value of q by Deflection experiments: the Deflections to be large, amounting at least to 20° of Arc; and even at this extent they are doubtful, because they are affected with the function of Velocity.

2ndly. To obtain the Value q, the only correct method is to obtain correct Determinations of the Horizontal Intensity at different Temperatures, and then to compare them with the Scale Readings of the Horizontal Force Magnetometer.

The first method having been found to be both incorrect and inadequate, the second method is that which has been adopted at this Observatory since 1847.

It has been shown before, that the Small Horizontal Force Magnetometer is subject to Hygrometric Changes. The effect was found not to depend on the exact quantity of *moisture* that is at the time present in the *air*, and the correction is, therefore, proportionate to the depression of the Wet-Bulb Thermometer. It is necessary to remark, that the Magnet is protected from the action of currents of air, by a mahogany box, the sides of which are firmly closed by means of wooden thumb screws; and the humidity of the external air cannot therefore be the same as that which is confined within the box: but as the box is of wood, which may not be impervious to the air, the confined air may therefore be said to tally proportionally, though not exactly, with the external air. Upon this *latter* supposition, the following Calculations have been made, and they are found to give very nearly the true results.

However, it is essential to remark, that for great exactness, the Small Horizontal Force Magnetometer is next to useless.

The effects of *Temperature* and *Moisture* on the Scale Readings of the Small Horizontal Force Magnetometer were determined by comparing the Mean Hourly Scale Readings of both the Horizontal Force Magnetometers for each month, at those hours when the Temperature was nearly the same, but the depression of the Wet-Bulb Thermometer differed considerably. These hours were found to be 6ʰ0 and 18ʰ0 G. M. T., or at 10 P. M. and 10 A. M. Bombay Civil Time.

The comparisons were made in the following manner:—

	Göttingen Mean Time.		
January 1847.	Noon.	6ʰ.	18ʰ.
Mean Scale Reading of Large Horizontal Force Magnetometer corrected for all corrections ...	19·08	17·90	19.35
„ „ of Small „ „ „ uncorrected.....	8·95	9·13	10·04
Difference....	10·13	8·77	9·31
2nd Diff..	1·36	0·82	
Mean Temperature of Small Horizontal Force Magnetometer.....	79°9	75°7	73°0
Diff. of Temperature...	—4°2	—6°9	
Mean Depression of Wet-Bulb Thermometer.....	7°8	3°9	9°6
Diff. of the depression of Wet-Bulb...	—3·9	—1·8	

Therefore,

A change of Temperature of the Instrument } of — 4°2 + { A change in the Depression of the Wet-Bulb Thermometer } of — 3°9, caused { the Reading of the Small Horizontal Force Magnetometer to alter by } + 1·36 Scale Reading.

Ditto	of —	6°9	ditto	of +	1°8	ditto	ditto	+ 0·82 „ „
By addition	—	11·1	ditto	—	2·1	ditto	ditto	+ 2·18 „ „
By subtraction	+	2·7	ditto	—	5·7	ditto	ditto	+ 0·44 „ „

Or if Q be the effect of *Temperature* of the Instrument on the Scale Readings for 1° of Fahren.; and Q′ „ „ *Moisture* „ „ „ „ „ for 1° of the Depression of the Wet-Bulb, then —11°1 Q —2°1 Q′ = 2·18 and 2°7 Q —5°7 Q′ = 0·44.

In this manner the following Equations were obtained from the year 1847:—

January	—11°1 Q — 2°1 Q′	= 2·18	Scale Divisions.	2·7 Q — 5·7 Q′	= 0·44	Scale Divisions.
February.. ..	— 8·0 Q — 1·3 Q′	= 2·10	„	0·4 Q — 4·9 Q′	= 0·84	„
March.....	— 6·3 Q — 1·4 Q′	= 1·53	„	0·1 Q — 6·6 Q′	= 0·85	„
April.....	— 5·7 Q — 3·0 Q′	= 1·11	„	—1·3 Q — 5·0 Q′	= 0·93	„
May	— 5·6 Q — 3·2 Q′	= 1·28	„	—1·0 Q — 3·8 Q′	= 0·78	„
June.....	— 2·3 Q — 2·3 Q′	= 1·07	„	0·1 Q — 0·9 Q′	= 0·21	„
July	— 2·2 Q — 1·7 Q′	= 0·86	„	—0·4 Q — 1·1 Q′	= 0·34	„
August.....	— 2·8 Q — 1·6 Q′	= 1·03	„	—0·6 Q — 1·6 Q′	= 0·27	„
September....	— 3·5 Q — 3·1 Q′	= 1·16	„	—0·1 Q — 1·7 Q′	= 0·50	„
October.....	— 6·3 Q — 2·0 Q′	= 1·67	„	0·3 Q — 4·8 Q′	= 0·77	„
November....	— 7·5 Q — 4·4 Q′	= 2·22	„	0·3 Q — 4·2 Q′	= 0·88	„
December.....	— 9·7 Q — 5·7 Q′	= 1·82	„	0.3 Q — 5·9 Q′	= 1·28	„
Sum...	—71°0 Q —31°8 Q′	= 18.03	„	Sum... 0°8 Q	—46°2 Q′ = 8·09	„

By equating these, we get

Q = — 0·179 (Scale Divisions.)
Q′ = — 0·174 „ „

Comparisions which were made in the same manner for the year 1848 gave the following Values:—

Q = — 0·180 (Scale Divisions.)
Q′ = — 0·137 „ „

In the Calculations for 1847, the following were the assumed Values:—

Q = — 0·17 (Scale Divisions.)
Q′ = — 0·17 „ „

GAIN AND LOSS OF MAGNETISM IN THE MAGNETS OF THE LARGE AND SMALL HORIZONTAL FORCE MAGNETOMETERS.

The Small hollow cylindrical Magnet (H·36), used in the Small Horizontal Force Magnetometer, is subject to a constant loss of Magnetism, ever since it has been in use, and the same may be said of all the other *Small Magnets.* The Small Horizontal Force Magnetometer is adjusted, generally, once a year, and at each time of adjustment is vibrated with a single thread. The following are the times of one Vibration :—

1st	Adjustment	on the	22nd	August	1845,	Time of one Vibration		2·365
2nd	Do.	do.	22nd	June	1846,	do.	do.	2·414
3rd	Do.	do.	7th	April	1847,	do.	do.	2·442
4th	Do.	do.	7th	Sept.	1848,	do.	do.	2·489

The foregoing shows clearly, that at each new adjustment the time of one Vibration had increased; and this must have proceeded either from a decrease in the Earth's Magnetic Horizontal Force, or a decrease in the Moment of the Magnet. Absolute Determinations of the Horizontal Intensity show that the Magnetic Force of the Earth is a little on the *increase:* the observed effect must, therefore, be owing to the loss of Magnetism in the Magnet used. It is now therefore necessary to determine whether this loss is uniform or not. Considering the Horizontal Intensity of the Earth's Magnetic Force as constant, we find that—

Between the 1st and 2nd Adjustment, the Monthly increase of Vibration was						0·0049	(nearly)
2nd and 3rd	„	„	„	„	„	0·0031	„
3rd and 4th	„	„	„	„	„	0·0028	„

The loss is not, therefore, quite regular, but on the decrease every year, though within a year the decrease may be considered nearly regular.

The Large Horizontal Force Magnetometer has been now in operation for nearly 8 years, and it always indicated an increase of Force, from year to year. At first this was considered to be an increase in the real Force of the Earth, and Professor Orlebar thought so in 1845; for he compared the Scale Readings of the Instrument with the Absolute Determinations, but, unfortunately, as these were not sufficiently accurate, he was obliged to let the question remain unsettled.

It has been already noticed that the silver suspending wire of the Large Horizontal Force Magnetometer, after a lapse of time, becomes peculiarly, though perhaps slightly, twisted, or loses its inherent elastic force; and if such be the case, the Scale Readings would apparently increase. This point would have been ascertained had the time of one Vibration of the Magnet (suspended by a single wire at each new adjustment of the Instrument) been known; but as this could not be accomplished, the question yet remains unsettled. From this it appears that the increase in the Readings of the Large Horizontal Force Magnetometer is owing to any one of the following causes :—

An increase in the Magnetic Horizontal Force of the Earth.

An increase in the Magnetic Moment of the Bar.

Or from the loss of the inherent elastic power of the silver wire by which the Magnet is suspended.

Comparisons of the Scale Readings with the Absolute Determination of Horizontal Intensity, in 1847, clearly show that the greater part of the increase in the Scale Readings was independent of the Changes in the Earth's Horizontal Force. See the following Table:—

Months, 1847.	Mean Value of X by Absolute Determinations.	Scale Reading of Large Horizontal Force Magnetometer, corrected for Temperature.	Scale Reading of Small Horizontal Force Magnetometer, corrected for Temperature, and Depression Wet-Bulb.	Change of X, from the month of February, by			Remarks.
				Absolute Determinations.	Scale Reading of Large Horizontal Force Magnetometer.	Scale Reading of Small Horizontal Force Magnetometer.	
January ...							The Observations of this month are not taken *into* account, because the Deflecting needle was not the same as that used in the other months.
February ...	·944	18·51	8·52				
March	·945	19·21	7·02	0·001	0·005	−0·011	
April... ...	·946	19·99	*39·07	·002	·012	− ·033	* Small Horizontal Force was again adjusted in this month, when the Scale Readings were moved 35 Scale Divisions.
May.....	·943	19·23	36·94	− ·001	·005	− ·049	
June.....	·952	19·42	34·93	·008	·007	− ·068	
July	·948	20·40	31·59	·004	·015	− ·089	
August.....	·955	20·84	29·81	·011	·018	− ·103	
September..	·941	20·50	26·61	− ·003	·016	− ·127	
October	·949	21·40	24·68	·005	·023	− ·141	
November..	·953	20·51	21·46	·009	·016	− ·166	
December ..	·950	20·93	19·03	·006	·019	− ·184	

From this Table it was inferred that, independent of the Variation in the Earth's Magnetic Force, the Scale Readings of the

Large Horizontal Force Magnetometer *increased* by 0·0027 every day, and the Small Horizontal Force Magnetometer *decreased* by 0·0800 „ „

Like comparisons, made in 1848, showed that in that year the Scale Readings of the Large Horizontal Force Magnetometer *increased* by 0·0013 every day, and the Small Horizontal Force Magnetometer *decreased* by 0·0650 „ „

The Intensity Calculations are made on the supposition that the *increase* or *decrease* of Scale Reading, in the Large and Small Horizontal Force Magnetometers, go on regularly throughout a year, but this is far from being the case, as these changes are sometimes very irregular.

In the Large Instrument the increase being so very small, the irregularities may be neglected; but this cannot be done in the Small Instrument without introducing inaccuracies in the final results.

But as the results obtained by means of the Large Instrument are the only ones that are considered of real value, the results obtained from the Small Instrument are given only to show how far they are coincident with the results of the Large Instrument, and also to serve as checks upon one another.

The following Table shows the Monthly *decrease* of the Scale Readings of the Small Horizontal Force Magnetometer in 1847 and 1848: *the Readings* are corrected for Temperature and Moisture:—

	1847.			1848	
Between	January	and February		— 1·61	(Scale Divisions.)
	February	and March	— 1·50 (Scale Divisions.)	— 0·20	„
	March	and April		— 0·93	„
	April	and May	— 2·13 „	— 3·31	„
	May	and June	— 2·55 „	— 1·83	„
	June	and July	— 2·80 „	— 2·21	„
	July	and August	— 1·78 „	— 2·02	„
	August	and September	— 3·20 „		
	September	and October	— 1·93 „	— 2·78	„
	October	and November	— 3·22 „	— 1·74	„
	November	and December	— 2·43 „	— 2·95	„
	December	and January 1848	— 1·15 „		

These numbers are too irregular to lead to the supposition that the Scale Readings decrease regularly throughout the year: however, in finding results from the Readings of the Small Horizontal Force Magnetometer, the supposition is assumed to be quite correct.

REDUCTION OF THE OBSERVATIONS OF THE HORIZONTAL FORCE MAGNETOMETER.

It has been clearly shown in the foregoing investigations, that the Scale Readings of the Horizontal Force Magnetometer are subject to various Changes, arising from causes quite distinct from the Earth's Magnetic Force, such as Temperature and Moisture: the Changes produced from these local causes must, therefore, be allowed for, before the true Changes in the Earth's Magnetic Force can be determined.

Let P be the loss of Scale Readings, for one day.

N the number of days from the beginning of the year, or from the time the Instrument is adjusted.

Q the Change in the Scale Readings for 1° Fahr., on account of the Changes of Temperature.

Q′ the Change in the Scale Readings for Change of 1° Fahr. in the depression of the Wet-Bulb.

X the Horizontal Intensity at the beginning of the year.

F the Scale Reading of the Horizontal Force Magnetometer, at the beginning of the year, corresponding to X, when the Temperature of the Instrument was 80°0 Fahr.

f The Scale Reading of the Magnetometer, uncorrected
$t°$ Temperature of the Magnet
$X + \delta x$ corresponding Value of Horizontal Intensity
W° the depression of Wet-Bulb
k the co-efficient of Reduction
} at any other time in the year,

Then it is evident, that—

$$\frac{\delta x}{X} = k \left\{ f - Q\,(t° - 80°) - Q'\,W° - PN - F \right\}$$

$$\therefore X + \delta x = X + k\,X \left\{ f - Q\,(t° - 80°) - Q'\,W° - PN - F \right\}$$

In the reduction of the Observations of 1847, the following were the assumed Values of the Constants for both Horizontal Force Magnetometers:—

Large Horizontal Force Magnetometer.	Small Horizontal Force Magnetometer.
P = 0·0027 Scale	P = { 0·0800 Scale before new adjustment. / 0·0683 „ after „ „ *
Q = — 0·32	Q = — 0·18 Scale.
Q′ = 0	Q′ = — 0·18 „
X = 7·953 English Units	X = 7·952 English Units. Before and after new adjustment.
F = 20·000 Scale Reading	F = 12·00 *Before* new adjustment.
	F = 47·00 *After* „ „
k = 0·001	k = 0·001 Before and after new adjustment.

The Calculation of the Absolute Horizontal Intensity, from the Scale Readings of each Horizontal Force Magnetometer, will therefore stand as follows:—

* Instrument newly adjusted on the 6th April 1847.

LARGE HORIZONTAL FORCE MAGNETOMETER.

$$X + \delta x = 7{\cdot}953 + 0{\cdot}0075 \left\{ f - 0{\cdot}0027\,N + 0{\cdot}32\,(t^\circ - 80^\circ) - 2{\cdot}000 \right\}$$

SMALL HORIZONTAL FORCE MAGNETOMETER.

$$X + \delta x = 7{\cdot}952 + 0{\cdot}0078 \left\{ f + 0{\cdot}0800\,N + 0{\cdot}18\,(t^\circ - 80^\circ) + 0{\cdot}18\,W^\circ - 47{\cdot}00 \right\} \text{ After new adjustment.}$$

$$= 7{\cdot}952 + 0{\cdot}0078 \left\{ f + 0{\cdot}0683\,N + 0{\cdot}18\,(t^\circ - 80) + 0{\cdot}18\,W^\circ - 12{\cdot}00 \right\} \text{ Before new adjustment.}$$

The Intensities calculated from these formula will be the Absolute Measure of Intensity, in English Units.*

The Absolute Values of the Horizontal Intensity, thus calculated from each of the Instruments, are given in the Magnetic Results; and of the two, the preference must be given to that deduced from the Large Instrument.

The Method adopted in this Observatory, which gives the Changes of the Earth's Magnetic Force in Absolute Measure, differs from all the other Observatories, as they give the Changes *in parts* of the whole Horizontal Force.

ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

The Instrument used for the purpose of Deflections is the Small Declinometer, in the Small Magnetic Observatory; and that which is used for the Vibrations is another Small (Declination) Instrument, fixed in the North-Western angle of the same Observatory.

The Observations were made according to the method of Professor Gauss, and also the notation used was the same. The Deflecting and Vibrated Magnet was a small solid cylinder (marked A·54), 2·99 inches long; this was used till the end of January, when a Magnet of the same construction (marked I·11) was substituted, its length being 2·46 inches. The reason why the latter was substituted for the former, was that the length of the Magnet (A·54) was not such that the second term of the following series would be = 0.

$$\frac{1}{R^3} + \frac{2\,L^2 - 3\,(1 - 5\,\mathrm{Sin}^2\,u)\,2^2}{R^4} + \&c.$$

L being the length of the Deflecting Magnet, and l that of the Deflected.

Thus, if A·51 be the Deflecting Magnet, L = 3·00 inches.

A·54 „ Deflected „ l = 3·00 „

$\therefore 2L^2 - 3l^2 = 18 - 27 = 9$ inches.

And if A·51 be the *Deflecting* Magnet, L = 3·00 inches.

„ I·11 be the *Deflected* „ l = 2·46 „

$\therefore 2L^2 - 3l^2 = 18 - 18{\cdot}1 = -0{\cdot}1$ inch.

Thus I·11 makes the term $\frac{2\,L^2 - 3\,(1 - \mathrm{Sin}^2\,u)\,2^2}{R^5} = 0$

This arrangement is of great importance in the Absolute Determination of the Horizontal Force.

* NOTE.—In the Calculation of the Absolute Horizontal Intensity, the Units used are, *a second of time, a foot, and a grain.*

These Determinations were made every day, at about 20 hours Göttingen Mean Solar Time, or Noon, Bombay Mean Time. The time occupied in making these Observations, each day, was about one hour: during this period the Changes both of Temperature and Horizontal Force were very slight, so that no error affected the resulting Values, when the corrections on account of Temperature and Change of Horizontal Force were considered as nothing.

The Absolute Value of Horizontal Force, obtained in English Units, has been calculated by the formulæ—

$$X = \frac{\pi}{t}\sqrt{\frac{2}{1+k}\frac{K}{R^3 \tan u}}$$

In which X is the Value of Absolute Horizontal Force.
K the Moment of Inertia of the Deflecting Magnet (A·51).
t the time of one Vibration of A·51.
R the distance of A·51 from the Deflected Magnet, in the Deflection experiments.
$1 + k$ the Torsion Force in the Declinometer.
$\pi = 3{\cdot}1416$.
u = the Deflection produced by A·51.

The Deflections were taken, in all cases, by placing the Deflecting Magnet at two different distances, successively, on the opposite arms of the Declinometer: these distances were 2·0 and 2·4 feet, respectively, during the month of January, and throughout the year.

The Vibrations were taken in the usual manner, by suspending the Deflecting Magnet in the small Declination box (in the North-Western angle of the Small Observatory), which was used as a Vibrating apparatus; the number of Vibrations taken, at each Daily Observation, were 200; and the Torsion Force was determined every month.

The *Moment of Inertia* of the Deflecting and Vibrated Magnet (A·51) was determined by suspending known weights at each end of the Magnet, and vibrating it in the Vibration apparatus. The *Moment of Inertia* was calculated by the following formulæ, allowance being made for Changes in the Torsion and Horizontal Force:—

$$K = 2r^2 p \frac{t^2}{T^2 - t^2}$$

in which t is the time of one Vibration, without weights.
and T „ „ „ „ with weights.
p is the weights attached.
r the semi-length of the Magnet.
k the Moment of Inertia required.

The Moment of Inertia of the solid Cylinder Magnet (A·51), as determined by Professor Orlebar (in 1845), was 2·254, which Value was used without any alteration in 1847.

PROBABLE ERROR OF AN OBSERVATION OF ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

The Absolute Value of the Horizontal Force is calculated by the formulæ—

$$X = \frac{\pi}{t}\sqrt{\frac{2}{1+k}\frac{k}{R^3 \tan u}}$$

The Angular Value of a Deflection can only be observed to 0′.25 of Arc; and the time of one Vibration is right only to 0ˢ.001. The corresponding errors in the ultimate Value of X will be found by differentiating the upper Equation, and substituting the errors in the Deflection and Vibration Observations; (thus)—

$$X = \frac{\pi}{t}\sqrt{\frac{2}{1+k}\cdot\frac{K}{R^3\ tan\ u}}$$

$$\therefore \frac{\delta x}{X} = -\frac{d t}{t} \text{ or } -\tfrac{1}{2}\frac{d u}{u}$$

$$\therefore \delta x = -\frac{X}{t}\cdot d t \text{ for error in the time of Vibration,}$$

$$\text{and}^{\delta}\ x = -\tfrac{1}{2}\frac{X}{u} d u \text{ for error in the time of Deflection,}$$

if $d t = 0^{s}.001$ and $d u = 0'.25$, if $X = 7{\cdot}95$, $t = 3^{s}.72$, $u = 0°22' =$ the Deflection produced at the distance of 2·0 feet: then the error in the resulting Value of X, or

$$\delta x = -\tfrac{1}{2}\frac{7{\cdot}95}{22'}\ 0'.25 = 0{\cdot}045$$ in Decimals of English Units from error in the Deflections.

The value of X is therefore uncertain to 0·05, or about $\frac{0{\cdot}05}{7{\cdot}95}$ or $\frac{1}{159}$ of its real value.

The foregoing was remedied, in January 1848, by shortening the distances of the Deflecting Magnet to 1·1 and 1·2 feet, and thus increasing the Deflection to 2°06′ and 1°37′: by this arrangement the value of X was left uncertain to 0·002 only, or nearly $\frac{1}{5000}$ part of its real Value. The calculated Intensity from the Scale Reading of the Large Horizontal Force Magnetometer and the observed Values agreed remarkably with each other during 1848.

The Intensities of 1847, as obtained from the Absolute Determinations, are given in the Results: they are uncertain, however, to 0·050. The Intensities calculated from the Scale Readings of the Large Horizontal Force Magnetometer may be relied upon to 0·001; those from the Scale Readings of the Small Horizontal Force Magnetometer are uncertain to 0·004.

In the Results the Values of Horizontal Intensity are accompanied by the corresponding Readings of both the Large and the Small Horizontal Force Magnetometers: they indicate the Scale Readings (uncorrected) of these Instruments at the middle time of Absolute Determination.

The Magnetic Moment of the Deflecting Magnet (A·54) is also given along with the above Values: it has been calculated by the formulæ—

$$L\ M = X.\ R^3\ tan\ u\ \frac{1+k}{2}$$

The notation used being the same as that in the formulæ of the Horizontal Intensity.

VERTICAL FORCE MAGNETOMETER.

The Vertical Force or Balance Magnetometer was made by Robinson, of London, and is of exactly the same construction as that described in the Royal Society's Report for 1840, and in Professor Lloyd's Report of the Dublin Magnetical Observatory.

In the Instrument in use at this Observatory the following defects have been discovered:

1st.—During the prevalence of the South West Monsoon, the sensibility of the Needle suddenly vanishes; for about this time the axle becomes rusted from the extreme moisture of the

air, which produces the observed sluggishness in its movements, but by cleaning the axle the Needle recovers its sensibility.

2nd.—At different times during the year, the Readings of the Instrument increase or decrease for a certain number of days. This change is wholly independent of the change in the Inclination, and is considered to be a mere instrumental defect, lying about the axle of the Needle; for if the Needle should be raised off the agate planes or supports, and then let down on them again, the Readings generally return to their former value. Allowance cannot be made for this change, and the results are, therefore, left without any correction for this error: this change does not appear to affect the diurnal motion of the Needle.

On account of the defects above mentioned, the Instrument often requires to be adjusted: all the adjustments were principally made by Mr. Dunn.

The base of the Instrument is kept level by means of the attached spirit level.

The run of the Micrometers were so adjusted that ten revolutions of each Micrometer head were exactly equal to 50 minutes of arc.

$$\therefore \text{ The value of one turn} = 0^{\circ}05'00''$$
$$\text{,, ,, of one division on the Micrometer head} = 00'06''$$

The experiments to determine the *Temperature Co-efficient* of the Needle are given in the Introduction for 1845, and the correction is assumed to be = 0.

Effects of Solar White Light upon the Needle.

The glass face of the Magnetometer box fronts a window, which, although kept closed by means of venetian blinds, may occasionally let the Sun's rays fall on the Needle. Professor Orlebar, in consequence, considered it necessary to determine the effect of Solar light on this Instrument; and his experiments on this subject are fully detailed in the Introduction to the Magnetical Observations of 1845-46. The result of the experiments was, that the *Solar white light* increased the Magnetism of the Needle.

Experiments were also made by Professor Orlebar on Lunar light, as to whether it also affected the Magnetism of the Needle; and the result was, that Lunar light did not in any way affect the Magnetism of the Needle.

The Instrument, at night, is lighted by means of two lamps (glass tumblers filled with oil, and containing cotton wicks), resting in delf saucers; this light was found to affect the Readings of the Instrument in a similar, though in a less degree than the Solar light; and in order to clear the Readings from this effect, a paper shade, blackened on the surface next to the Instrument, was put over the glass face, and two holes were made in it, to allow the light to fall upon the cross-wires at each end of the Magnet, and a slit was also cut, through which the Thermometer is read.

The whole length of the Magnet being thus screened from external light, is subject to the action of the Earth's Magnetism only; and as the Co-efficient of Temperature is assumed to be = 0, it is evident that the changes in the Readings of the Instrument will (Instrumental errors excepted) indicate nothing but the changes in the Earth's Vertical Force.

Occasional Adjustments of the Vertical Force Magnetometer.

1*st January* 1847.—The Instrument under the Adjustment of the past year.

8*th February*.—The cross-wires, at each end of the Magnet, having gone up very high in the field of view of the Micrometers, gave much trouble in taking the Daily Deflections, which rendered it necessary to lower them by moving the horizontal screw on the Needle. With this intention the Needle was raised off the agate planes, and immediately let down on them again, to ascertain what difference this process would make in the Readings; and the result of this operation was, that the Readings were lowered from 12°07'67 to 1°38'90, a depression of 10°18'77. It is difficult to ascertain from what cause this gradual increase in the Readings took place. The Instrument was not touched after this, as the low Readings were obtained without moving the horizontal screw on the Needle.

14*th February*.—The Needle was raised and let down again, and the Readings were found to have decreased from 4°05'00 to 0°01'90, or = 3°03'10.

4*th April*.—The Needle was raised off the agate planes, and let down on them again, but the Readings did not alter in the least.

17*th April*.—Several small *Ants* were observed crawling across the South end of the Needle, which disturbed the Readings of the Instrument. The Instrument was opened, and the Needle and its supports were cleared of the insects, and cleaned afresh; after this was completed, the Readings were found to have increased from 6°30'0 to 8°30'0, or = 2°00'0.

1*st June*.—The North end of the Needle again was found to be very high in the field of view of the Microscope: the Instrument was opened, the Needle taken out and cleaned; and by moving the horizontal screw on the South end of the Needle, the Readings were reduced from 17°15'2 to 0°05'5 = 17°09'7.

1*st August*.—The Needle was made more sensible, by cleaning the axle.

13*th August*.—The Needle was again cleaned, which altered the Readings from 3°10'0 to 1°10'0.

23*rd August*.—The Needle taken out, and the axle wiped dry.

7*th September*.—The Needle was made more sensible, and the axle wiped dry.

21*st September*.—The Needle made a little more sensible.

From the 21st September the Instrument underwent no further adjustment.

Co-efficient of Reduction.

From the foregoing adjustments it is evident that the co-efficient of Reduction of the Vertical Force Magnetometer was not the same throughout the year. Professor Orlebar proposed to determine the Value of this co-efficient every day, from Deflections produced on the Needle by another Magnet, at the distance R from the centre of the Needle.

In this Observatory the Magnetic Needle of the Vertical Force Magnetometer lies exactly in the Magnetic Meridian, so that if from any cause the horizontal position of the Needle is disturbed, both the Vertical and Horizontal components of the Earth's Magnetic Force begin to act upon it. The formulæ given in the Royal Society's Report would not therefore answer for this place. Professor Orlebar, in his Introduction to the Observations of 1846, has given a full solution of this problem, which we have reduced to the following Equations :

Let a Magnet, whose *Moment* is first determined, be placed at the distance R over the centre of the Needle, and let the Deflections produced be η; let X be the Horizontal, and Y the Vertical Force of the Earth ; θ the Inclination, or Dip ; ϵ the angle made by the line joining the centre of gravity and the centre of motion with the axis of the Needle ; W the weight of the Needle ; and g the distance between the centre of *gravity* and the centre of *motion* : then, when the Needle is lying horizontal and unaffected—

$$m\,Y = W\,g\cos\epsilon \qquad (1)$$

When affected by the Deflecting Magnet at the distance R, then—

$$\therefore m\,Y\cos\eta - m\,X\sin\eta + \frac{m\,c\,M}{R^3}\cos\eta = W\,g\cos(\epsilon-\eta)$$

$$= W\,g\cos\epsilon\cot\eta + W\,g\,Sin\,\epsilon\sin\eta$$

$$\therefore m\,Y - m\,X\tan\eta + \frac{m\,c\,M}{R^3} = W\,g\cos\epsilon + W\,g\,Sin\,\epsilon\tan\eta \qquad (2)$$

Subtract (1) from (2)—

$$\therefore \frac{m\,c\,M}{R^3} - m\,X\tan\eta = W\,g\sin\epsilon\tan\eta$$

But $\frac{m\,c\,M}{R^3} = \frac{r^3\tan u}{R^3}\,.\,m\,X$ (from Absolute Determinations of Horizontal Force).

$$\therefore \text{By Substitution } m\,X\,\frac{r^3\tan u - R^3\tan\eta}{R^3} = W\,g\,Sin\,\epsilon\,tan\,\eta \qquad (3)$$

By dividing (3) by (1), Multiplying by R^3, and substituting $\cot\theta$ for $\frac{X}{Y}$, we obtain

$$r^3\tan u\cot\theta - R^3\tan\eta\cot\theta = R^3\tan\eta\tan\epsilon,$$

$$\therefore R^3\tan\eta(\cot\theta + \tan\epsilon) = r^3\tan u\cot\theta$$

$$\therefore (\cot\theta + \tan\epsilon) = \frac{r^3\tan u}{R^3\tan\eta}\cot\theta \qquad (4)$$

But 0·0002909 $(\cot\theta + \tan\epsilon)$ is the co-efficient of reduction (k)

$$\therefore k = 0{\cdot}0002909\,\frac{r^3\tan u}{R^3\tan\eta}\cdot\cot\theta \qquad (5)$$

At this Observatory, the Changes of the Vertical Force are obtained, not in parts of the whole Force, but in Absolute Measure, so that to obtain the Co-efficient of Reduction which we use, it becomes necessary to multiply (5) by Y, the Vertical Force, in English Units :—

$$\therefore k\,Y = 0{\cdot}0002909\,\frac{r^3\tan u}{R^3\tan\eta}\,Y\cot\theta$$

$$= 0{\cdot}0002909\;X\;\frac{r^3\tan u}{R^3\tan\eta}\,. \qquad \text{since } X = Y\cot\theta$$

The Mean Value of X for 1847 is 7·95, English Units.

$$\therefore k\,Y \text{ or } K = 0{\cdot}0023\,\frac{r^3\tan u}{R^3\tan\eta}$$

By this formulæ the Co-efficients for the Reduction of the Vertical Force Magnetometer have been obtained.

In order to determine K, u and η must be known; these were determined in the following manner:—The solid cylinder Magnet (A·51) by which the Absolute Determinations of the Horizontal Force were determined, was also used in deflecting the Needle of the Vertical Force Magnetometer; the Absolute Determinations of the Horizontal Force furnished us with the Value of $r^3 \tan u$; and the Value of $R^3 \tan \eta$ was determined by the following means: Over the box of the Vertical Force Magnetometer was placed a frame-work of wood, which supported a grooved rod, 6 feet high, graduated to decimals of a foot. This rod was so constructed, that the groove could be brought exactly vertical, and its centre exactly over the centre of the Needle of the Vertical Force Magnetometer. The Deflecting Magnet A·51 was raised and lowered in the groove of the upright rod, by means of a thread which passed over a pulley at the top of the rod, and then to the observer's hand: the Value of η was thus obtained, and therefore $R^3 \tan \eta$.

The following Table gives the Values of η for 2·0 and 2·4 feet distances, during the year 1847.

DEFLECTION OF VERTICAL FORCE NEEDLE, 1847.—DETERMINATION OF THE VALUE OF η.

1847, Date.	η R= 2·0 feet.	η R= 2·4 feet.	1847, Date.	η R= 2·0 feet.	η R= 2·4 feet.	1847, Date.	η R= 2·0 feet.	η R= 2·0 feet.	1847, Date.	η R= 2·4 feet.	η R= 2·4 feet.
Jan. 1	0°44′75	0°28′12	Mar. 23	0°49′20	0°31′00	June 11	0°41′15	0°25′96	Aug. 19	0°34′07	0°22′65
3	·44·70	·29·49	24	·47·58	·29·00	13	·48·30	·30·08	20	·34·15	·22·50
5	·42·75	·25·20	25	·47·54	·29·09	14	·45·35	·27·71	22	·37·60	·27·02
6	·43·13	·25·06	26	·47·01	·28·83	15	·45·45	·27·26	24	·24·96	·14·85
7	·42·90	·26·91	28	·49·40	·30·88	16	·39·93	·23·70	25	·25·72	·14·91
11	·40·58	·23·78	29	·48·18	·28·78	17	·42·75	·26·14	26	·23·95	·13 62
12	·41·27	·25·20	30	·46·72	·29·00	18	·38·90	·23·37	27	·25·47	·15·18
13	·41·02	·25·05	31	·47·65	·29·35	20	·42·03	·25·65	29	·20·46	·12·17
14	·42·97	·25·84				21	·38·75	·24·09	31	·24·36	·14·23
15	·42·14	·26·94				22	·39·96	·28·61			
17	·41·45	·25·62	April 1	0°46′68	0°28′60	23	·40.24	·25·15	Sept. 1	0°24′10	0°14′12
18		·24·60	2	·46·72	·29·51	24	·47·77	·30·60	3	·22·53	·13·52
25		·26·75	4	·47·82	·30·02	25	·48·55	·29·49	5	·23·53	·13·53
26		·23·20	7	·48·50	·30·50	27	·44·20	·28·17	7	·42·50	·25·69
27		·22·92	8	·49·56	·29·51	28	·43·81	·25·81	8	·40·20	·24·13
			9	·45·96	·28·45	29	·41·25	·23·24	9	·40.33	·22·76
Feb. 1		0°23′88	11	·45·45	·28·00	30	·47·87	·29·80	10	·45·04	·28·07
2		·22·78	12	·45·90	·30·03				13	·40·80	·24·40
3		·21·30	13		·28·55	July 2	0°46′23	0°29′10	14	·41·60	·25·27
7		·24·71	14	·47·30	·29·50	4	·45·56	·27·41	15	·35·85	·23·14
8		·23·62	18	·51·50	·30·59	5	·48·18	·29·95	16	·35·42	·23·60
10	0°41′23	·25·13	25		·29·65	6	·47·15	·29·88	19	·37·99	·22·27
11	·41·62	·24·75	26		·27·62	7	·46·70	·29·52	20	·39·72	·23·77
12	·41·19	·26·24	27		·26·82	8	·45·40	·29·26	21	·70·98	·43·64
17	·38·75	·27·41	28		·27·82	9	·42·14	·27·70	22	·68·56	·41·58
19	·39·42	·28·75	29		·27·96	11	·35·60	·24·77	23	·69·57	·44·24
21	·40·12	·29·28	30		·27·00	12	·27·89	·18·51	26	·67·05	·44·05
22	·41·80	·29·14				13	·27·32	·20·16	27	·69·97	·42·39
23	·38·75	·28·07	May 2	0°49′62		14	·31·64	·20·83	28	·69·83	·42·89
25	·39·90	·28·80	3		0°29′48	15	·25·80	·16·81	29	·68·96	·41·82
26	·43·46	·30·73	4	·45·40	·27·42	16	·27·86	·18·17			
28	·42·63	·25·52	5	·46·22	·27·43	18	·26·87	·17·43	Oct. 1	0°68′13	0°41′33
			9		·30·13	19	·26·30	·17·50	3	·70·67	·41·44
Mar. 1	0°44′72	0°27′91	10		·27·60	21	·24·72	·16·89	4	·67·76	·41·30
2	·42·52	·27·19	11		·27·53	23	·16·86	·9·58	7	·66·94	·40·75
4	·44·05	·26·95	12		·27·88	25	·15·48	·12·52	8	·68·73	·41·56
5	·43·42	·31·68	13		·28·35	27	·17·13	·10·63	10	·66·30	·38·75
6	·43·21	·26·82	14		·27·01	28	·15·92	·11·67	11	·66·10	·39·04
8	·42·72	·25·60	19		·27·67	30	·56·35	·35·03	12	·65·20	·40.05
9	·42·92	·25·88	20		·28·08				13	·65·25	·39·67
10	·42·62	·26·15	25		·28·15	Aug. 1	0°52′33	0°33′57	14	·61·55	·38·98
11	·42·68	·25·15				2	·51·32	·38·23	15	·65·15	·39·69
14	·45·25	·27·75	June 2	0°50′16	0°31′22	3	·48.55	·33·64	17	·64·66	·39·64
15	·44·95	·27·81	3	·52.43	·31·58	6	·47·82	·28·55	19	·64·00	·38·83
16	·44·32	·28·71	4	·46·72	·23·13	8	·54·06	·33·56	21	·62·89	·35·12
17	·47·63	·29·78	6	·46·77	·30·20	9	·49·75	·30·93	22	·62·67	·38·60
18	·54·04	·33·39	7	·40·02	·21·70	12	·46·32	·29·01	24	·64·00	·38·96
19	·45·78	·26·99	8	·41·05	·24·53	13	·41·53	·27·21	27	·62·16	·37·26
21	·46·47	·28·55	9	·42·80	·25·79	14	·37.98	·24·20	29	·62·65	·38·44
22	·47·64	·29·40	10	·42·86	·26·46	16	·39·98	·25·50	31	·62·14	·37·88

DEFLECTIONS OF VERTICAL FORCE NEEDLE, 1847.—DETERMINATIONS OF THE VALUE OF η *(continued)*.

1847, Date.	η R= 2·0 feet.	η R= 2·4 feet.	1847, Date.	η R= 2·0 feet.	η R= 2·4 feet.	1847, Date.	η R= 2·0 feet.	η R= 2·4 feet.	1847, Date.	η R= 2·0 feet.	η R= 2·4 feet.
Nov. 1	0°62′67	0°37′78	Nov. 15	0°56′72	0°34′23	Dec. 1	0°60′55	0°36′57	Dec. 17	0°58′66	0°35′05
2	·61·90	·37·81	16	·56·98	·34·63	3	·59·57	·36·84	22	·56·85	·35·07
3	·61·87	·39·06	17	·56·30	·34·02	5	·57·57	·34·62	23	·58·90	·36·36
4	·63·58	·39·84	19	·56·40	·34·11	6	·56·53	·36·40	27	·56·13	·34·58
7	·61·69	·37·73	21	·55·48	·33·55	8	·56·52	·33·85	29	·56·48	·33·78
8	·59·30	·37·14	23	·54·03	·33·08	9	·56·08	·33·96	29	·55·32	·33·95
10	·60·17	·37·06	25	·61·49	·36·67	10	·54·73	·32·35	30	·55·79	·34·78
11	·59·20	·36·03	26	·60·42	·37·00	13	·54·36	·31·81	31	·55·18	·34·49
12	·58·98	·36·35	28	·60·38	·37·84	15	·57·79	·34·83			
14	·57·89	·35·00	29	·59·50	·37·02	16	·55·73	·33·56			
			30	·58·50	·35·90						

The above days were now divided into a number of periods, in which, from the Value of η, the Co-efficients of Reductions were considered very nearly regular. The Mean Values of η for those periods, the corresponding Values of $r^3 \tan u$,* and the deduced Value of the Co-efficient of Reduction according to the formulæ $K = 0{\cdot}0023 \frac{r^3 . tan\ u}{R^3 . tan\ \eta}$,† are given in the following Table:—

CO-EFFICIENTS OF REDUCTION FOR VERTICAL FORCE MAGNETOMETER.

Periods assumed.		Mean Value of η at R = 2·0 feet.	Mean Value of η at R = 2·4 feet.	Mean Value of $r^3 \tan u$ Log.	K, or Co-efficient of Reduction	
					English Units.	
January.....	1st — 31st	0°42′14	0°25′64	$\bar{2}$·713	0·00060	
February.....	1st — 28th	·40·81	·26·63	·706	·00060	
March.....	1st — 31st	·45·93	·28·47	·726	·00057	
April.....	1st — 30th	·47·54	·28·38	·723	·00056	0·00058
May.....	1st — 31st	·47·01	·28·06	·730	·00057	
June.....	1st — 30th	·43·96	·26·78	·718	·00059	
July.....	2nd — 9th	·45·91	·28·98	·717	·00055	
	11th — 21st	·28·22	·19·01	·718	·00087	
	23rd — 28th	·16·35	·11·10	·718	·00150	
	30th	·56·35	·35·03	·718		
August.....	1st — 12th	·50·02	·31·54	·713	·00050	
	13th — 22nd	·37·55	·24·84	·707	·00064	
	24th — 31st	·24·15	·14·16	·706	·00106	
September....	1st — 5th	·23·39	·13·72	·707	·00110	
	7th — 14th	·41·74	·24·89	·706	·00063	0·00063
	15th — 20th	·38·00	·23·19	·707	·00063	
	21st — 29th	·69·27	·42·37	·708	·00036	
October.....	1st — 31st	·65·08	·39·46	·697	·00038	
November ...	1st — 30th	·59·21	·36·25	·692	·00041	0·00041
December	1st — 31st	·56·82	·34·60	·691	·00043	

With these Values the Reductions were made, and are given in the Results.

* As obtained from Absolute Determinations of Horizontal Force.

† Co-efficient of Reduction for Changes of Vertical Force in Absolute Measure.

Reduction of Observations of Vertical Force Magnetometer.

In the foregoing explanations it has been shown that the Vertical Force Magnetometer, at this Observatory, worked under many disadvantages, such as the corrosion and blunting of the knife edge of the Axle, &c.; the Observations, therefore, are not to be considered as true Measures of the Changes in the Vertical Component of the Earth's Magnetic Force.

It is considered, however, much safer to take the Diurnal Changes as sufficiently accurate; and it is only for showing the Changes from day to day that the Instrument is considered inadequate. But so as not to leave any thing undone, the whole of the Observations have been reduced, and the *Monthly*, *Daily*, and *Hourly* Values of the Absolute Vertical Force, as obtained from these Reductions, are given in the Results, and were made in the following manner:—

All the *Daily* and *Hourly* Means, in each Month, were multiplied by the then respective Co-efficients of Reduction, then these numbers were corrected for differences caused by occasional adjustments: the *Yearly Mean* of these corrected numbers are taken.

From the Mean Horizontal Intensity and the Mean Dip, the Mean Vertical Intensity was calculated by the formulæ $Y = X \tan \theta$, and this Intensity was supposed to correspond with the above Yearly Mean.

By Means of Simple Addition and Subtraction the Mean Vertical Intensity for each day was obtained.

The method of using these Reductions is fully explained in the Results.

THE INCLINATION

Was observed with a Dipping Needle, made by Nairn and Blunt: it is 9 inches long, and the Vertical Circle is divided to 15′ of Arc. The Dip Circle does not stand upon a plane which requires levelling, but is suspended by Gimbals; by this means, and the weight of the apparatus, the Circle remains in a vertical plane. The extremities of the axis of the Needle are cones, which enter into rounded sockets, so that the bearing points may be simply two, by which the friction is supposed to be reduced to a quantity much less than that of an axle, of the best workmanship, on an agate plane. Notwithstanding this latter construction, it is found, from practice, that the friction is so much, that the Observations of the Inclination are uncertain to within a Degree. The rounded sockets can be made to approximate the conical ends of the Needle's axle by a slow motion by means of screws, which work horizontally in vertical pieces of brass fixed to the brass-work of the Vertical Circle. If the further parts of the sockets be more distant from one another than the length of the Needle's axis, then the conical ends will rest on the sides of the socket, and the friction is considerable, but by approaching the sockets, the distance of their points may be made equal to the length of the axis, and the axis is supported simply at its points, and the friction is greatly reduced.

The Observation taken with the North Pole of the Needle at the marked end, with the face of the Needle on the same side as the face of the Dip Circle, and with the face of the Dip Circle towards the East ..... Is set down in Column *a*

The same, but with the face of the Dip Circle to the West..... in Column *a′*

The Observation taken with the North Pole of the Needle at the marked end, and with the face of the Needle on the contrary side, to the face of the Dip Circle, and with the face of the Dip Circle towards the East ..... in Column a'

The same, but with the the face of the Dip Circle to the West..... in Column a''

And the other Columns, in the Observations on the Dip, denote similar relative positions of the Needle, when the North Pole is at the unmarked end.

The Inclination was also deduced from *the Mean Absolute Values* of Horizontal and Vertical Intensities, as obtained by Means of the Large Horizontal and Vertical Force Magnetometers, which are of course affected with Instrumental errors; still, in comparison with the observed Inclination, they are of much better Value.

The Inclination was calculated by the Formulæ—

$$tan\ \theta = \frac{Y}{X}$$

TOTAL INTENSITY.

This was obtained by Means of the Horizontal Intensity, calculated from the Scale Readings of the Large Horizontal Force Magnetometer, and the Dip deduced from the Vertical and Horizontal Intensities: the Formulæ used was—

$$R = X\ Sec.\ \theta$$

As the fluctuations between the Horizontal and Total Forces are nearly the same, the Results contain only the Mean Hourly and Mean Monthly Values of Absolute Total Force (in English Units). The Mean Daily Values were not calculated.

MAGNETIC INDUCTION

Was observed with a small portable Instrument. It stands on a tripod base, with a fixed circular plate, 5 inches in diameter, graduated so as to be read off by Verniers to 20″, and carrying an upper revolving plate, with two projecting arms. One arm supports a Telescope, the other a socket for the purpose of supporting a soft iron cylinder. A rectangular box is screwed on the upper plate to contain the small cylindrical Magnet, which is suspended by a single thread (silk) in a glass tube, from an apparatus similar to that used in the small Declinometer. The Observations were made by viewing through the attached Telescope the Scale fixed near the eye piece of the Telescope, the Divisions being reflected by a mirror fixed to the Magnet.

The Angular Value of the Scale was determined by Professor Orlebar in 1845, and found to be *one Integer of the Scale* = 14′37. The Co-efficient of Torsion was also determined by him at the same time, and found to be: $-1 + \frac{\Pi}{F} = 1{\cdot}00051$; the Readings were not corrected for this Co-efficient.

When the Instrument was received from England, it was not furnished with a soft iron bar; but Professor Orlebar obtained, through the kindness of Captain Turner, Mint Engineer, three soft iron bars from that Establishment, which were made with the greatest care. One of

these, a soft iron cylinder, 9 inches long, and ·0603 foot diameter, was clamped into a copper collet; and the Magnet and Bar were so adjusted, that the upper end of the Bar was in the same Horizontal plane as the centre of the Magnet. The centres of the Magnet and the Bar were 0·043 foot distant from each other: this Bar was marked No. I., and a small hole in one of its ends served as a distinction between the two ends.

An attempt, in 1845, was made to determine the effects of the permanent Magnetism of the Bar, by unclamping the collet, and reversing the Bar: then half the difference between the Observations was the effect.

Mean Scale Readings of the Induction Magnetometer.

Time.	Induction Bar		
	Being removed	With the hole end.	
		Below.	Above.
D. H. M.			
7· 2· 5	13·80		
6½		19·98	
10	14·17		
12			18·03
16	14·16		
18½		18·60	
21	14·15		
23			17·81
30½	14·14		
33		18·13	
	Mean	19·00	17·92

If these Means are assumed to be the correct Readings, then 0·54 will be the Correction for the permanent Magnetism of the Bar: but the Observations are too inconsistent to consider this as better than a rough approximation. In the registered Observations the end of the Bar with the hole in it was below, and therefore this Correction may be subtracted from them in order to obtain the true results.

As soft iron is very liable to rust, Professor Orlebar considered that it would be expedient to compare the effects of a rusty and of a bright Bar on the Magnet. For this purpose, on the last day of September 1845, the Induction Bar remaining rusty, another soft iron Bar, marked No. II., and which was exactly similar to the Bar marked No. I., was carefully cleaned, and placed near the small Declinometer: the result showed that the rust had no effect within the errors of Observation and of the Instruments.

In March 1846 the small Induction Bar (marked No. I.) was removed, and another Bar, 2 feet long, and ·0603 foot diameter (made at the Mint, of the softest iron there available), was set up in its place. Previous to setting up this long Bar, Observations were made with it, to ascertain its effect on the small Instruments; and the results showed that its effect upon the small Instruments was insensible.

Subsequently, in 1846, Professor Orlebar made several experiments, in order to determine the permanent Magnetism in the Induction Bar, and he arrived at the following conclusions:—

1. "The (so called) permanent Magnetism is continually changing, and generally diminishing."

2. "A part of the Induced Magnetism becomes permanent."

3. "Induction is not instantaneous."

In consequence of advices received in September 1847, from Professor Orlebar, then in England, the Observations of this Instrument were at once discontinued.

From the commencement of the year 1847, till the discontinuance of the Observations, in September, the Instrument remained under the adjustments of the former year.

The Induction Magnetometer being supposed to measure the Changes in the Earth's Vertical Force; and as these Changes were shown by the Vertical Force Magnetometer, it is considered that the Induction Instrument which was in use at this Observatory either exhibited no Changes, or was not delicate enough to show them, therefore no results were obtained from this Instrument.

THE ORDER IN WHICH THE MAGNETOMETERS WERE OBSERVED AT THE HOUR OF OBSERVATION.

At 2^m before the full hour..	The Vertical Force Magnetometer.
At the full hour	The Large Declinometer.
At 2^m after the full hour..	The Large Horizontal Force Magnetometer.
At 4^m „ „ „ „ ..	The Small „ „ „
At 5^m „ „ „ „ .	The Small Declinometer.
At 6^m „ „ „ „ ..	The Induction Magnetometer.

End of Introduction to the Magnetical Observations.

BOMBAY MAGNETICAL OBSERVATIONS.

LARGE AND SMALL DECLINATION MAGNETOMETERS.

BOMBAY MAGNETICAL OBSERVATIONS.

LARGE DECLINATION

(in arc).

JANUARY, 1847. Göttingen Mean Time.	LARGE DECLINATION (in arc).											
	Noon.	2h	4h	6h	8h	10h	12h	14h	16h	18h	20h	22h
1	13·940	13·906	13·837	13·681	13·906	13·355	13·013	12·601	13·562	14·076	12·188	14·901
2												
3	14·386	13·734	13·974	13·906	13·906	14·557	13·819	13·425	13·257	13·527	13·132	13·906
4	14·076	13·734	13·596	13·700	13·906	13·871	14·025	13·184	13·974	14·694	14·249	15·687
5	15·176	14·042	14·867	13·579	13·562	13·527	14·442	13·081	14·042	13·906	13·991	14·368
6	13·974	13·768	14·042	13·871	13·219	13·785	13·338	12·981	14·694	14·936	14·283	15·004
7	14·626	13·940	14·592	14·213	13·630	13·460	12·188	12·876	14·386	14·936	12·978	14·249
8	14·592	13·768	13·249	13·906	14·213	13·957	13,768	13·321	14·523	13·493	11·501	13·837
9												
10	14·523	14·111	14·179	14·249	13·906	14·249	14·454	13·974	15·691	14·249	13·562	14·592
11	14·145	13·940	14·523	14·249	14·403	13·922	13·630	13·355	13·355	14·745	13·562	13·664
12	13·974	14·042	14·386	14·249	14·145	14·626	14,437	14·249	15·004	14·728	13·219	13·768
13	15·416	14·179	14·386	13·974	14·196	14·008	13·974	13·425	14·251	14·076	13·906	14·145
14	14·111	13·974	14·249	14·249	14·249	13·802	13·696	13·389	14·179	13·837	13·253	13·219
15	14·145	13·974	13·974	13·906	13·906	13·321	13·837	13·527	14·936	14·936	14·249	14·111
16												
17	14·454	13·974	13·974	14·471	14·592	14·592	13·630	13·426	15·623	15·280	13·527	14·111
18	14·249	13·355	13·871	14·008	13·940	14·076	13·768	13·459	14·832	12·360	12·394	14·420
19	15·280	13·630	13·493	13·906	13·940	13·493	13·287	12·601	14·249	12·119	13·768	13·619
20	14·798	13·115	13·941	13·736	13·459	13·871	13·476	13·013	14·059	13·219	13·562	14·832
21	14·317	13·425	13·974	14·283	14·145	13·751	13·630	13·630	14·650	13·425	12·567	14·976
22	15·828	14·145	13·974	14·078	14·008	13·871	13·562	13·219	13·219	12·738	12·669	13·906
23												
24	14·728	14·042	13·906	14·179	13·837	14·959	13·184	13·150	13·906	14·351	11·157	12·876
25	14·728	13·906	13·974	13·906	13·906	13·664	13·389	13·081	14·111	14·488	13·115	14·386
26	13·837	13·219	13·562	13·562	13·664	13·425	13·785	13·219	12·944	13·906	12·188	14·936
27	14·762	13·734	13·871	13·630	14·249	13·991	13·768	13·493	13·698	14·179	13·425	14·454
28	14·728	13·768	13·871	13·837	14·462	14·145	14·288	14·317	14·213	14·420	12·606	14·592
29	13.527	13·389	14·317	14.623	15·708	16·416	15.691	14·523	14·076	14·592	14·351	16·276
30												
31	16·691	14·145	13·906	14·660	15·109	16·926	16·085	14·557	13·459	13·906	14·042	16·515

FEBRUARY, 1847.

LARGE DECLINATION *(in arc)*.

Göttingen Mean Time.	Noon.	2h	4h	6h	8h	10h	12h	14h	16h	18h	20h	22h
1	15·966	13·768	15·416	14·592	13·819	13·974	14·179	14·008	13·527	13·287	13·219	15·691
2	15·828	13·906	14·317	14·249	14·249	13·991	13·991	13·940	13·906	13·906	14·592	15·245
3	14·523	13·940	14·042	14·179	13·906	14·300	13·819	13·355	13·837	13·287	13·562	15·142
4	15·828	14·454	14·592	14·386	14·523	13·974	13·906	14·249	14·179	12·533	12·533	14·592
5	14·317	13·974	14·111	13·706	13·906	13·906	13·425	13·355	14·660	13·874	13·219	13·768
6												
7	15·211	13·974	14·283	14·111	14·128	14·317	14·420	14·213	14·728	13·150	12·188	14·936
8	14·936	13·664	13·734	14·249	14·111	14·008	13·991	13·219	14·488	14·179	13·219	14·179
9	14·728	13·837	14·213	14·249	14·523	14·454	13·802	13·974	14·970	14·386	13·013	14·386
10	14·832	13·562	13·906	14·042	14·317	13·906	13·906	13·700	14·213	13·906	12·944	14·728
11	14·042	13·493	14·008	13·906	14·420	14·249	14·111	13·768	14·249	14·213	13·906	14·592
12	13·974	13·219	13·630	13·630	14·249	14·471	14·128	13·630	14·454	13·906	13·700	14·592
13												
14	14·454	12·636	13·425	14·249	14·249	14·179	13·906	13·906	13·974	14·454	13·906	14·386
15	13·974	13·562	13·837	13·717	13·906	13·355	12·876	13·389	15·211	13·785	13·527	15·211
16	14·523	14·386	14·317	14·111	14·111	13·802	13·906	13·940	15·211	14·249	12·188	14·592
17	14·728	13·700	14·317	14·351	13·940	14·079	13·630	13·940	14·386	12·533	11·776	13·837
18	14·660	14·179	14·076	13·906	13·871	13·802	13·700	14·111	13·974	12·256	12·533	14·179
19	15·211	14·179	14·076	13·734	13·871	13·903	13·630	14·386	15·416	13·389	12·533	14·523
20												
21	14·111	13·837	13·906	13·562	13·562	14·042	13·700	14·111	15·211	13·562	12·188	13·871
22	14·867	14·936	15·142	14·008	14·592	14·592	15·211	13·906	15·897	15·280	12·875	13·150
23	14·454	14·042	14·129	14·300	14·317	13·974	13·562	13·974	15·211	15·280	13·664	13·287
24	15·348	13·562	14·317	14·592	14·283	14·592	14·042	14·076	14·008	13·287	13·219	13·700
25	14·867	13·906	14·832	14·626	14·798	14 592	13·389	14·008	14·728	14·592	14·249	14·936
26	14·936	14·592	14·592	14·557	13·906	14·111	13·700	14·557	15·280	14·179	12·188	13·425
27												
28	14·798	14·111	14·042	13·974	14·351	14·283	14·386	14·403	15·485	14·249	12·222	12·050

MARCH, 1847.

LARGE DECLINATION *(in arc)*.

Göttingen Mean Time.	Noon.	2h	4h	6h	8h	10h	12h	14h	16h	18h	20h	22h
1	13·700	13·389	14·179	15·897	16·309	17·064	15·862	16·102	15·691	14·317	12·188	12·944
2	14·762	14·386	14·249	13·974	14·283	14·179	13·837	14·145	16·240	15·966	13·081	12·910
3	13·940	13·974	13·971	13·906	14·008	14·145	13·510	13·630	15·623	16·034	13·527	12·326
4	13·906	13·700	14·351	14·592	14·626	14·970	14·196	14·557	16·102	15·280	14·454	13·974
5	14·609	14·042	14·249	14·249	13·906	14·145	13·991	14·042	15·074	14·249	12·428	12·978
6												
7	14·488	13·630	14·042	14·454	14·317	14·368	14·008	13·906	15·074	14·936	12·703	12·015
8	15·004	13·700	14·249	14·970	14·386	14·626	14·660	13·802	14·936	15·450	13·562	14·936
9	14·798	14·728	14·249	14·249	14·249	13·974	13·700	13·940	15·280	15·280	13·527	13·081
10	14·334	13·768	14·008	14·249	14·936	14·728	14·557	14·386	14·936	15·280	12·876	13·013
11	14·488	14·042	14·042	14·042	14·592	14·437	13·871	14·145	15·828	16·653	13·906	12·876
12	13·906	13·596	13·700	13·837	13·906	13·906	13·871	13·700	14·660	14·936	12·876	13·115
13												
14	13·974	13·562	14·179	14·523	14·592	13·768	13·355	13·184	15·416	15·772	13·906	14·590
15	15·004	13·493	13·940	14·488	14·388	14·219	13·355	13·562	14·798	14·936	12·533	12·533
16	13·768	13·630	14·012	14·213	14·266	14·111	13·700	13·630	15·280	15·966	13·219	13·081
17	13·837	13·459	13·906	13·664	13·700	13·700	13·321	13·051	15·004	15·897	13·219	13·081
18	13·493	13·493	13·562	13·751	13·906	13·906	13·287	13·425	14·867	15·211	13·906	13·355
19	14·008	15·348	15·760	16·309	16·926	15·845	15·038	15·794	15·897	14·867	13·219	13·219
20												
21	15·382	14·660	14·660	14·728	14·798	14·454	14·609	15·211	16·447	15·553	13·287	12·876
22	14·523	13·906	14·042	14·042	14·317	14·317	14·162	14·249	17·339	16·136	12·876	12·533
23	14·523	13·906	14·249	14·179	14·523	14·403	13·837	14·592	16·240	14·936	12·326	12·772
24	14·523	15·108	14·592	14·317	14·179	14·283	13·940	14·386	16·309	15·348	13·219	12·635
25	14·076	14·042	14·728	14·076	14·162	14·403	14·505	14·867	16·447	15·966	12·523	12·840
26	14·076	14·523	14·592	14·523	14·454	14·403	14·317	15·004	16·515	15·038	13·219	13·236
27												
28	14·694	14·042	13·837	13·700	14·249	14·505	14·128	14·042	15·519	14·970	12·533	14·317
29	15·485	14·008	13·906	14·213	14·283	14·317	14·008	14·832	15·485	14·249	11·845	12·876
30	15·004	14·317	14·317	14·283	14·592	14·111	14·111	15·074	16·378	14·936	11·845	11·776
31	13·906	13·425	13·700	13·906	14·283	14·196	13·906	14·523	16·309	16·653	13·562	12·394

APRIL, 1847.

LARGE DECLINATION *(in arc.)*

Göttingen Mean Time.	Noon.	2h	4h	6h	8h	10h	12h	14h	16h	18h	20h	22h
1	13'321	13'837	13'700	13'768	14'008	13'459	13'527	13'527	15'416	14'592	11'845	11'947
2	14·128	13·562	13·287	13·219	14·219	14·008	14·145	14·249	16·240	16·038	11·675	11·810
3												
4	14·008	13·700	14·111	14·592	14·592	14·317	14·351	14·901	17·407	16·309	12·806	13·906
5	14·420	14·179	14·213	14·420	14·762	14·762	14·283	14·728	16·721	15·725	12·188	12·876
6	14·728	13·837	13·940	14·076	14·420	14·042	13·562	14·111	14·523	14·351	12·256	12·188
7	14·592	13·219	13·355	14·454	15·416	14·867	14·936	15·074	16·721	16.309	13·630	15·108
8	14·488	13·906	14·660	14·592	14·901	14·601	13·664	15·038	17·133	15·966	12·188	13·562
9	14·592	14·111	14·179	14·592	14·249	14·454	14·008	14·660	16·378	15·460	12·533	13·287
10												
11	15·074	13·630	13·630	13·562	13·802	13·854	14·145	15·553	17·339	13·596	11·157	13·013
12	15·280	13·562	13·630	13·527	13·906	14·523	13·768	15·074	15·108	10·196	9·441	11·225
13	13·700	13·768	13·768	14·213	13·906	14·300	14·145	16·739	16·996	14·249	11·501	12·360
14	13·906	13·734	14·213	14·488	14·970	15·725	14·834	15·966	16·653	13·906	10·505	10·814
15	13·562	14·283	14·042	14·523	14·592	14·660	14·451	15·553	17·064	13·562	10·509	11·088
16	13·081	13·355	13·630	13·630	14·592	14·592	14·249	15·623	16·926	14·249	12·188	13·287
17												
18	14·798	13·906	13·906	14·213	14·213	14·334	14·128	15·382	15·691	13·562	11·501	12·394
19	13·871	13·837	13.630	13·906	13·906	14·386	14·317	14·867	15·280	12·188	11·879	13·734
20	13·172	15·416	15·587	15·794	16·789	16·789	16·309	16·926	15·828	12·537	10·744	12·084
21	14·249	17·133	15·760	15·280	15·485	15·623	14·317	16·721	16·515	12·533	11·603	13·837
22	15·074	13·906	14·008	14·213	14·592	14·523	14·650	16·721	16·653	13·562	11·501	13·355
23	14·936	14·454	14·042	14·249	14·283	14·488	14·386	15·691	16·172	13·734	11·845	12·944
24												
25	14.386	13·974	13·974	13·940	14·249	14·334	14·042	15·280	14·454	11·845	11·501	12·944
26	13·906	14·042	13·425	13·664	13·974	14·111	14·230	15·623	15·348	12.910	11·845	13·150
27	14·317	13·700	13·906	14·249	14·596	14·283	14·386	15·828	16·309	13·253	12·876	14·967
28	15·623	14·626	14·008	13·906	14·111	14·523	14·420	15·623	14·368	11·776	11·501	13·768
29	14·592	13·355	13·837	13·906	14·557	14·111	14·249	16·309	15·760	12·944	12·050	13·906
30	15·623	14·317	13·355	14·317	14·936	15·125	15·074	15·553	16.102	13·906	12·567	13·664

MAY, 1847.

LARGE DECLINATION *(in arc).*

Göttingen Mean Time.	Noon.	2h	4h	6h	8h	10h	12h	14h	16h	18h	20h	22h
1												
2	13'219	14'523	13'906	14'042	14'249	14'454	14'592	15'038	17'682	15'280	11'242	12'188
3	14·386	14·867	13·906	14·179	14·093	14·145	13·940	15·211	17·612	14·832	12·463	12·669
4	13·768	14·042	13·837	13·974	14·592	14·368	13·888	14·798	17·339	14·249	10·196	11·569
5	13·906	14·454	13·562	14·249	14·249	14·111	13·700	15·657	15·760	12·703	11·501	11·019
6	13·201	13·974	13·425	13·871	13·906	13·717	13·751	15·074	16·515	13·888	11·879	11·981
7	14·111	13·700	13·459	14·283	14·249	13·923	13·664	15·280	15·691	11·501	13·013	16·309
8	18·093	16·172	14·660	14·249	13·802	14·076	14·076	15·416	15·553	12·876	11·363	13·219
9												
10	15·314	14·386	13·802	14·368	14·368	14·368	14·351	15·553	16·172	13·219	11·569	12·256
11	14·249	13·734	13·630	13·837	13·906	14·145	14·420	15·862	15·897	13·493	11·601	12·806
12	14·936	14·728	13·906	14·213	14·454	14·249	14·042	15·623	15·966	12·188	10·814	13·219
13	15·348	13·974	13·906	13·630	13·906	13·768	13·940	15·966	16·309	12·222	12·428	13·219
14	14·728	15·074	14·008	13·906	13·906	14·351	14·626	15·966	16·378	11·845	10·814	10·882
15	12·533	12·738	13·768	15·280	14·249	14·317	14·557	16·412	16·309	12·533	12·256	13·887
16	16·721	15·211	13·389	15·553	14·970	15·245	14·111	15·485	16·172	14·249	12·326	12·273
17												
18	14·660	14.317	13·630	14·249	14·249	14·523	14·936	15·966	17·064	13·562	10·088	11·845
19	14·076	14·592	13·768	13·647	14·249	14·249	14·557	15·828	15·828	13·150	11·501	11·363
20	13·081	14·179	13·768	14·076	14·557	14·420	14·249	15·280	17·339	15·280	13·047	13·425
21	14·317	14·386	13·768	13·906	14·249	14·213	13·837	14·798	14·728	12·497	11·776	13·081
22												
23	14·454	14·179	13·700	13·906	14·249	14·076	14·111	15·553	15·416	12·738	11·431	12·119
24	13·974	14·042	13·493	13·544	14·249	13·802	13·906	14·626	15·280	13·184	12·876	13·081
25	13·562	13·389	13·047	13·630	13·562	14·008	13·768	15·074	15·142	14·592	13·150	13·355
26	13·287	13·562	13·425	13·871	13·751	13·802	14·061	15·280	16·034	13·562	11·157	12·876
27	13·906	13·493	12·876	13·219	13·287	14·266	15·245	16·034	16·584	12·222	11·225	12·669
28	13·287	13·768	13·562	13·389	13·906	14·042	14·179	15·828	16·653	13·562	11·501	11·501
29												
30	13·802	14·179	13·493	13·837	13·562	14·179	14·179	15·623	16·309	13·630	10·814	11·981
31	13·425	13·910	13·150	13·219	13·562	13·150	13·768	14·867	15·416	11·845	10·471	11·019

JUNE, 1847.

LARGE DECLINATION *(in arc.)*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	13'150	13'425	13'150	12'533	13'081	13'906	13'219	14'528	13'974	13'837	14'179	13'681
2	14·042	13·630	13·630	13·355	13·219	13·253	13·287	13·734	13·562	13·355	13·596	13·768
3	13·837	13·837	13·700	13·150	13·047	13·219	13·219	13·287	13·287	13·425	13·459	13·493
4	13·355	13·700	13·700	13·493	13·184	13·219	13·047	13·219	13·253	13·355	13·389	13·425
5												
6	12·876	12·944	13·013	12·806	12·601	12·876	12·910	13·219	13·219	13·493	13·768	13·768
7	13·906	13·630	13·253	12·601	13·081	13·219	12·944	13·047	13·150	13·321	13·304	13·219
8	13·768	13·355	12·256	12·326	12·533	12·876	13·219	13·253	13·389	13·700	13·768	13·493
9	13·287	13·562	13·219	12·738	12·669	12·703	12·978	12·876	13·155	13·219	13·562	13·906
10	13·013	13·837	13·837	13·219	13·355	13·906	13·906	13·425	13·802	13·906	13·906	13·906
11	13·219	13·630	13·630	13·013	13·493	13·562	13·459	13·734	13·871	14·179	13·906	13·937
12												
13	12·944	12·944	13·081	13·219	13·768	13·734	13·974	13·906	13·837	13·630	13·837	13·837
14	11·879	13·837	13·219	13·940	14·111	13·905	13·906	14·076	14·528	14·317	13·837	14·042
15	13·768	13·905	13·700	12·944	12·738	12·876	12·978	13·837	14·179	13·974	14·317	14·042
16	13·906	14·728	14·454	13·425	14·355	13·664	13·734	13·562	13·906	14·111	14·249	14·488
17	12·738	13·355	13·562	13·219	13·219	13·219	13·562	13·906	13·906	14·179	14·179	14·179
18	13·287	13·493	13·493	13·081	13·150	13·219	13·493	13·871	13·562	13·871	13·906	13·906
19												
20	13·630	13·905	13·700	13·287	13·287	13·389	13·647	13·906	13·906	13·871	13·768	13·837
21	13·184	13·081	13·115	12·876	12·669	12·876	12·910	13·562	14·008	14·111	14·249	14·867
22	13·940	13·940	14·523	13·493	13·013	13·219	13·582	13·562	13·906	13·664	13·734	13·647
23	14·867	14·111	13·493	13·013	13·150	13·493	13·560	13·630	13·560	14·145	16·751	13·734
24	14·386	13·837	13·562	13·013	12·944	13·150	13·219	13·219	13·219	13·355	13·355	13·355
25	14·454	14·249	13·768	12·876	13·013	13·219	13·389	13·321	13·321	13·219	13·081	13·081
26												
27	14·454	14·386	13·906	13·081	13·081	13·219	13·219	13·388	13·734	13·493	14·179	13·493
28	13·219	13·219	13·287	12·806	12·533	12·772	13·047	13·219	13·355	13·700	13·630	13·219
29	14·042	13·562	13·219	12·876	12·533	12·567	12·703	12·910	13·219	13·527	13·630	13·630
30	13·906	14·042	13·493	12·601	12·533	13·047	13·219	13·219	13·253	13·493	13·562	13·562

JULY, 1847.

LARGE DECLINATION *(in arc.)*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	12'635	13'219	13'630	13'289	12'944	13'047	13'081	13' 19	12'978	13'081	13'425	13'630
2	12·256	13·150	13·047	12·669	12·567	12·703	12·944	13·150	13·150	13·219	13·219	13·219
3												
4	11·776	12·669	13·219	12·601	12·601	12·876	13·184	13·219	13·219	13·321	13·493	13·493
5	12·533	13·219	13·287	12·601	12·533	12·533	12·533	12·533	12·876	12·738	13·219	13·219
6	12·669	13·219	12·669	12·326	12·394	12·703	12·772	13·150	12·703	13·081	12·533	12·944
7	12·806	13·493	13·287	12·553	12·944	13·562	13·389	13·219	13·837	13·837	13·906	13·906
8	13·493	13·150	12·738	12·669	12·669	12·876	12·944	13·425	13·406	13·395	13·459	13·493
9	13·184	13·630	13·425	12·601	12·533	13·219	13·219	13·837	13·906	14·523	15·211	15·416
10												
11	13·837	13·974	13·355	13·287	12·876	13·493	13·287	13·389	13·630	13·334	14·457	14·451
12	13·389	13·562	13·906	13·425	13·287	13·562	13·389	13·837	13·871	14·249	14·523	14·660
13	13·493	14·111	13·287	12·533	12·806	13·150	13·389	13·906	14·592	14·523	14·042	14·076
14	13·287	13·562	13·906	12·876	12·876	13·219	13·287	13·802	13·837	14·145	14·179	13·733
15	13·219	13·906	13·837	13·630	13·219	13·562	13·906	13·837	13·906	13·768	13·871	13·837
16	14·042	14·454	14·249	13·150	12·876	12·944	13·219	13·253	13·389	13·768	13·768	13·906
17												
18	13·425	13·562	13·493	12·876	13·013	13·562	13·219	13·802	13·837	13·700	13·334	13·802
19	13·459	13·974	13·837	13·562	13·115	12·115	13·115	13·134	13·219	13·355	13·425	13·355
20	14·249	14·317	14·111	13·013	12·669	12·876	13·219	13·219	13·493	13·493	13·493	13·630
21	14·317	14·249	13·700	13·047	12·876	13·047	13·047	13·219	13·150	13·150	13·219	13·219
22	14·660	13·974	13·630	13·562	12·840	12·533	13·562	12·876	13·372	13·700	13·768	13·630
23	13·459	13·355	13·630	13·081	12·738	12·738	12·567	13·081	13·253	13·287	13·700	13·219
24												
25	15·211	15·004	14·660	13·562	13·355	13·253	13·287	13·425	13·425	13·425	13·630	13·630
26	13·389	13·906	13·906	13·287	13·562	13·528	13·871	13·700	13·906	14·179	14·042	14·179
27	13·700	13·906	13·768	13·355	13·219	13·219	13·219	13·219	13·219	13·493	13·355	13·219
28	14·592	14·936	14·386	13·184	13·150	13·287	13·734	13·734	13·321	13·562	13·493	13·768
29	12·944	13·630	13·562	13·219	13·013	13·219	12.876	13·459	13·562	13·562	13·768	13·906
30	15·142	15·004	14·111	13·061	13·287	13·289	13·219	13·219	13·389	13·253	13·700	13·871

JUNE, 1847.

LARGE DECLINATION *(in arc)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	13·734	13·837	15·211	16·274	16·378	14·936	13·988	12·876	11·845	11·845	12·910	13·219
2	13·768	14·317	15·828	16·653	16·858	15·966	14·592	13·562	12·326	11·776	12·394	13·031
3	13·630	13·768	15·004	16·309	16·447	15·460	13·906	12·876	11·501	11·501	12·650	11·876
4	13·459	14·145	14·936	15·485	15·348	14.592	13·389	12·188	11·501	11·569	12·738	13·013
5												
6	13·768	14·213	15·382	16·447	15·966	15·211	14·454	12·635	11·501	11·845	12·256	12·944
7	13·355	14·557	15·450	15·828	16·136	14·936	13·768	13·389	12·876	12·067	12·360	13·700
8	13·906	14·249	15·485	16·034	16·172	14·936	13·906	12·394	11·157	10·951	11·639	11·913
9	15·527	14·179	15·074	15·623	15·348	13·906	12·876	11·673	10·778	10·676	11·431	11·981
10	13·906	13·837	15·280	15·623	14·592	13·219	11·293	10·471	10·471	9·716	10·741	11·845
11	14·660	15·074	16·274	15·485	15·623	14·420	13·219	11·088	10·128	9·217	11·466	11·362
12												
13	13·837	14·454	15·966	16·858	16·515	14·626	14·179	12·876	11·569	11·019	10·607	11·501
14	14·454	15·245	16·926	17·612	16·996	15·211	13·906	12·840	11·845	11·501	12·188	12·703
15	14·396	14·660	16·172	17·270	16·721	14·592	12·876	11·501	10·471	10·814	11·845	12·876
16	14·557	14·798	16·515	17·407	17·544	15·623	13·734	11·501	10·572	11·431	11·501	11·639
17	14·179	13·940	15·280	16·515	16·618	15·108	12·876	11·501	10·641	11·157	12·119	11·345
18	14·042	14·592	15·211	15·211	15·314	14·249	12·876	10·814	10·402	10·333	11·019	11·981
19												
20	13·906	14·111	15·280	15·828	15·280	14·762	12·944	11·845	11·157	11·088	11·569	11·533
21	14·592	14·592	15·211	15·004	14·454	12·876	12·533	10·471	9·303	10·265	11·913	13·389
22	13·700	14·317	15·519	16·343	15·897	13·906	13·219	12·533	12·256	12·876	13·562	14·249
23	13·991	14·283	15·450	16·102	16·172	15·280	14·249	13·287	13·150	13·219	13·527	14·111
24	13·664	14·454	15·966	16·515	15·966	15·280	14·317	13·560	12·576	13·236	13·906	14·249
25	13·700	14·111	15·280	15·280	14·592	13·562	12·533	11·327	9·956	10·882	12·290	12·944
26												
27	13·717	14·213	15·211	15·691	14·936	13·493	11·845	11·501	11·431	11·534	11·293	12·256
28	13·365	13·700	15·280	15·485	15·211	12·562	13·562	12·876	13·219	13·562	13·150	13·717
29	13·768	14·592	15·862	16·309	16·068	14·592	11·845	11·657	10·814	11·501	12·256	12·927
30	13·906	14·523	15.074	13·940	12·876	11·947	10·471	9·836	10·128	9·234	10·196	11·707

JULY, 1847.

LARGE DECLINATION *(in arc)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	13·493	13·906	15·828	16·996	15·966	13·957	12·101	10·881	10·128	10·744	11·157	11·501
2	13·255	13·906	15·382	15·794	14·936	12·876	11·157	9·785	9·098	9·716	10·402	11·845
3												
4	13·630	14·042	15·211	15·553	14·936	13·476	12·533	11·845	10·436	9·853	10·744	11·501
5	13·253	13·700	14·592	15·211	15·211	14·762	13·321	11·088	10·128	9·716	10·471	11·845
6	13·355	13·974	15·211	16·102	15·142	12·978	11·088	10·402	10·196	10·128	9·853	11·845
7	13·906	14·523	15·416	16·721	15·966	14·317	12·533	10·985	10·016	11·431	11·913	12·601
8	13·700	13·974	15·211	15·485	14·669	13·734	13·940	13·562	12·876	12·394	12·428	12·394
9	15·211	15·348	16·447	15·280	16·653	14·523	12·533	10·299	10·402	10·676	10·744	11·569
10												
11	14·317	14·867	16·034	15·623	14·454	12·188	10·196	9·441	9·441	10·129	11·225	12·533
12	14·592	15·416	16·309	16·926	16·996	14·936	12·256	11·157	10·128	10·778	11·225	12·326
13	13·940	14·523	15·623	16·034	15·760	15·004	13·150	12·533	11·673	11·191	11·776	12·463
14	13·940	14·042	15·108	15·108	14·454	13·662	12·188	10·539	10·196	10·265	10·814	11·913
15	13·735	13·974	14·728	15·623	15·382	14·249	12·533	11·157	10·573	10·882	11·501	12·738
16	13·906	14·317	15·348	15·760	15·623	14·592	13·630	12·550	11·501	11·088	11·845	11·776
17												
18	13·957	14·249	15·004	15·211	14·523	13·734	12·944	12·188	10·916	11·293	11·501	11·981
19	13·768	14·386	15·966	17·201	17·167	15·897	11·879	8·806	8·343	9·921	11·845	13·219
20	13·630	14·111	15·348	15·966	15·828	14·523	13·562	12·876	12·669	12·669	12·188	13·562
21	13·493	14·386	15·966	16·618	15·828	14·762	13·219	12·256	12·188	12·368	13·425	14·454
22	14·042	14·592	16·034	15·966	15·074	12·601	11·845	11·363	11·088	11·431	12·676	13·837
23	13·637	14·249	15·691	16·034	15·004	13·940	13·081	12·360	12·153	12·188	12·910	13·304
24												
25	14·180	14·660	16·068	16·618	15·828	14·454	13·562	12·876	11·501	10·814	11·225	12·601
26	14·660	14·660	15·794	15·794	14·592	13·219	11·776	11·569	11·673	11·981	12·778	13·562
27	13·562	14·111	15·348	15·348	14·592	13·562	12·188	11·191	11·259	11·603	12·188	13·768
28	13·837	14·249	15·348	15·691	15·485	14·249	12·876	11·501	10·471	11·122	11·569	12·601
29	13·974	14·523	15·931	16·721	16·653	15·211	14.111	13·219	12·806	13·493	14·042	14·660
30	13·906	13·974	14·728	14·592	13·562	12·533	11·845	11·501	11·501	11·951	12·533	13·013

AUGUST, 1847.

LARGE DECLINATION *(in arc)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	12·533	12·876	13·219	12·876	12·876	13·150	13·150	13·219	13·527	13·562	13·681	13·837
2	12·394	12·944	13·527	12·772	12·567	12·806	13·150	13·219	13·596	13·493	13·837	13·802
3	12·533	12·806	13·425	12·806	12·601	12·876	12·876	13·219	13·562	13·493	13·837	14·249
4	12·533	13·355	13·013	13·081	12·669	12·944	13·219	13·493	13·630	13·700	13·700	13·630
5	12·876	13·219	13·768	14·249	13·700	13·562	13·837	13·940	14·317	14·054	14·179	14·728
6	13·287	13·837	13·837	12·669	12·876	13·287	13·389	14·523	13·974	14·042	14·249	14·523
7												
8	13·974	14·488	13·974	12·944	13·081	13·150	13·493	13·837	13·671	14·179	14·420	14·196
9	14·145	13·906	13·355	13·219	13·219	13·150	13·560	13·560	12·560	13·664	13·768	14·042
10	12·119	13·219	13·768	13·081	13·081	13·219	13·562	13·871	13·734	13·974	14·196	13·906
11	12·876	12·944	12·876	12·876	12·806	13·150	13·287	13·389	13·837	13·768	13·906	13·768
12	14·592	13·974	13·287	13·150	13·287	13·389	13·287	13·562	13·734	13·906	13·906	13·940
13	14·936	14·592	13·837	13·081	13·013	13·150	13·219	13·493	13·837	13·768	13·802	13·837
14	12·703	13·321	14·249	14·042	14·042	15·004	14.213	14·592	13·906	14·111	14·213	13·871
15												
16	14·454	14·386	13·219	12·669	12·669	13·219	13·219	13·493	13·700	13·837	13·974	13·785
17	14·454	15·142	13·837	12·944	12·738	13·013	13·562	13·219	13·219	13·630	13·940	13·906
18	14·386	14·936	13·906	12·876	12·944	13·287	13·562	13·837	13·906	14·454	14·592	14·660
19	13·562	13·906	13·906	13·493	13·493	13·562	14·008	13·596	14·317	13·906	14·111	14·213
20	14·317	14·728	14·249	14·179	13·700	13·562	13·562	13·906	13·734	13·768	13·940	14·386
21												
22	16·996	16·996	15·760	15·004	15·211	15·108	14·936	14·249	14·249	14·249	14·179	14·420
23	15·280	14.867	14·042	13·630	13·562	13·562	13·906	13·906	14·592	14·540	14·420	14·454
24	15·314	15·760	15·211	14·386	14·111	14·386	14·240	13·906	14·111	14·042	14·454	14·249
25	15·623	16·309	15·966	15·280	15·416	15·460	14·762	14·523	14·523	14·386	14·454	14·111
26	14·008	13·974	14·454	13·802	13·493	13·562	13·906	13·906	14·249	14·249	14·179	14·111
27	14·901	15·038	14·523	13·768	13·355	13 562	13·906	13·906	14·249	14·145	14·249	14·249
28												
29	14·592	14.454	13·974	13·287	13·287	13·389	13·837	13·940	14·249	14·249	14·351	14·317
30	13·219	13·974	14·042	13·150	13·768	14·523	14·249	13·906	14·249	14·179	14·283	14·076
31	13·596	14·249	14.145	13·630	13.700	13·837	13·871	13·906	13·906	14·317	14·283	14·042

SEPTEMBER, 1847.

LARGE DECLINATION *in (arc)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	14·008	13·837	12·876	13·219	13·425	13·287	13·906	14·592	14·523	14·249	14·145	14·059
2	14·111	13·837	13·013	12·876	13·425	13·287	12·876	13·219	13·906	13·906	14·111	14·249
3	12·944	13·562	13·150	13·219	13·768	13·219	13·287	13·562	13·768	14·008	13·974	13·906
4												
5	14·042	14·660	14·249	13·425	13·493	13·562	13·562	14·196	14·249	14·351	14·111	14·196
6	14·249	14·592	13·906	13·355	13·802	13·734	13·562	13·906	13·960	13·700	14·062	14·111
7	14·867	14·592	13·837	13·562	13·974	13·734	13·630	14·076	14·249	14·249	14·111	14·179
8	15·074	14·660	13·355	13·287	13·219	13·219	13·425	13·837	13·906	14·042	14·111	14·230
9	15·004	15·348	14·454	14·111	13·906	14·249	13·562	13·906	14·170	14·042	14·901	15·760
10	15·176	15·142	13·355	13·150	13·425	13·219	13·219	13·562	13·219	13·906	14·042	14·042
11												
12	14·386	14·454	13·493	13·355	13·355	13·219	13·389	13·562	13·562	13·768	13·768	13·700
13	13·253	13·906	16·034	15·211	16·068	14·660	15·348	14·592	14·488	13·562	13·906	14·111
14	14·557	14·660	14·145	13·837	13·562	13·562	13·562	13·596	14·592	14·592	14·351	13·111
15	13·562	13·562	13·219	13·081	13·219	12·944	12·944	13·253	13·630	13·664	13·630	13·630
16	12·533	12·978	12·394	12·394	12·463	12·876	12·876	13·219	13·562	13·768	13·562	13·476
17	14·145	13·837	13·700	13·425	13·630	14·249	14·213	14·249	13·906	13·837	13·940	13·664
18												
19	13·700	13·562	12·876	13·321	13·562	13·906	13·734	13·562	13·562	13·338	13·184	13·459
20	14·042	13·974	13·355	13·287	13·630	13·596	13·219	14·179	13·906	13·974	13·802	14·008
21	15·142	14·386	13·700	13·700	13·287	13·562	13·562	13·906	13·700	13·664	13·392	13·425
22	15·553	15·416	14·592	14·660	13·974	13·734	13·837	13·837	13·837	13·768	13·768	13·493
23	15·966	14·867	15·038	15·004	14·798	15·280	14·249	13·940	14·523	14·042	13·974	13·906
24	14·936	19·743	21·459	18·231	14·867	19·056	19·400	17·682	19·056	18·369	16·515	17·064
25												
26	14·523	14·592	14·728	16·034	15·485	15·623	14·317	15·691	15·280	14·632	15·039	13·425
27	20·276	19·194	18·849	16·653	16·515	15·074	15·623	15·074	14·936	14·901	15·314	15·416
28	14·728	14·626	14·386	14·420	14·386	14·523	14·557	14·592	14·762	14·867	14·454	15·074
29	14·488	14·179	13·425	13·768	13·837	13·734	15·280	15·897	16·996	15·725	16·721	15·828
30	14·351	14·523	14·386	13·906	14·386	14·249	14·592	14·798	14·213	14·540	14·592	14·266

AUGUST, 1847.

Göttingen Mean Time.	LARGE DECLINATION (in arc).											
	12h	31h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h
1	13·768	13·837	14·111	14·592	14·523	14·249	13·287	12·533	12·533	12·394	12·153	12·153
2	13·768	13·700	14·936	15·416	14·970	13·837	12·708	11·327	11·776	12·394	12·738	12·428
3	14·317	14·454	14.832	15.623	15.623	14.592	13·321	12.256	11·845	10·744	9·990	10·951
4	13·700	13·837	14·867	16·515	16·515	15·966	14·936	13·906	13·734	13·081	12·738	12·188
5	25·211	15·348	15·828	16·309	15·897	14·660	14·249	12·533	11·225	11·845	11·707	12·463
6	14·815	14·660	15·966	16·034	15·416	13·768	12·153	10·778	10·892	11·088	11·913	12·567
7												
8	14·162	14·592	15·211	15·966	15·760	14·762	13·219	12·188	11·673	12.050	12·910	13·940
9	14·283	14·936	16·034	16·653	16·309	14·660	13·047	11·845	11·225	11·225	11·019	11·157
10	13·562	13·837	15·245	15·726	15·211	13·287	11·947	10·985	11·157	11·293	11·501	12·394
11	13·630	13·906	14·936	15·966	16·102	15·004	14·249	13·906	13·562	13·201	13·630	14·386
12	14·317	14·660	15·828	16·034	15·931	14·936	13·906	12·876	12·533	12·050	12·772	14·249
13	13·768	13·906	15·004	15·760	15·211	14.249	12·533	11·845	10·814	10·436	10·559	11·431
14	13·802	14·111	15·897	16·858	16·515	15·280	14·936	13·906	12·188	11·157	11·673	12·222
15												
16	14·283	14·317	15·760	17·475	17·201	15·623	14·042	13·219	11·947	11·776	12·669	13·562
17	14·111	14·523	15·966	16·858	16·102	14·936	13·562	12·188	11·157	11·431	12·119	13·150
18	14·128	14·317	16·378	17·064	16·926	16·309	14·592	12·188	11·431	11·088	11·586	13·013
19	14·249	14·660	16.172	17·270	17·133	15·966	14·660	13·219	12·584	11·741	12·601	13·372
20	14·076	14·798	15·966	16·584	15·897	14·249	12·533	11·501	11·157	10·471	11·225	13·150
21												
22	14·626	15·280	16·378	17·682	17·339	15·004	12·601	12·067	12·222	13·837	14·386	15·280
23	14·300	14·936	16·653	17·544	16·965	15·142	12·533	10·814	10·814	11·242	11·913	13·837
24	14·420	14·832	16·102	16·996	15·897	13·906	11·157	10·128	10·295	11·707	13·236	14·798
25	14·317	14·762	16·721	16·721	15·074	12·533	11·845	11·569	11·157	11·567	12·394	13·493
26	14.008	15·348	16·034	16·926	16·584	15·280	13·562	11·569	10·814	11.465	12·394	13·871
27	14·249	14·523	15·528	16·996	15·966	12·635	10·128	8·755	8·067	9·372	10·814	12·876
28												
29	13·317	14·454	15·623	17·612	18·299	17·441	15·314	13·837	12·703	10·951	10·814	10·913
30	14·042	14·386	15·314	16·653	16·447	15·280	13·047	11·845	10·814	9·887	10·814	12·256
31	13·906	14·111	15·486	16·721	16·721	15·623	14·249	12·188	11.122	11·225	11·845	13·219

SEPTEMBER, 1847.

Göttingen Mean Time.	LARGE DECLINATION (in arc).											
	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h
1	13·906	14·179	15·004	15·966	15·004	13·287	11·501	10·539	10·058	10·778	12·256	13·493
2	14·454	14·592	15·966	16·926	16·447	14·936	12·876	10·471	8·755	8·628	9·853	11·845
3	13·974	14·317	15·623	16·653	16·515	15·280	13·184	10·471	10·299	11·019	12·326	13·219
4												
5	14·230	14·592	16·034	17·201	16·653	15·004	13·219	10·882	9·990	9·853	11·259	12·944
6	14·111	14·454	16·034	17·956	18·025	16·309	13·317	12·256	11·501	11·603	12·876	14·179
7	14·179	14·660	15·966	16·653	15·897	14·660	12·635	11·639	11·845	11·707	12·738	14·317
8	14·249	14·523	15·897	17·407	16·240	13·906	12·876	11·157	10·141	10·814	12·153	14·042
9	15·966	16·378	18·025	18·644	17·544	14·592	12·533	10·814	9·441	10·265	11·913	14·111
10	14·249	14·592	15·623	16·309	16·102	14·523	11·157	9·098	8·755	9·509	11·122	12·967
11												
12	13·562	14·249	15·966	17·339	16·789	15·348	12·635	10·814	9·441	9·681	10·744	12·876
13	14·317	14·867	16·721	17·682	17·270	15·280	13·562	12·533	11·845	11·776	12·394	13·630
14	14·317	14·396	15·348	16·653	16·515	15·897	14·592	11·845	10·522	10·537	11·431	12·567
15	13·785	13·700	14·728	16·034	15·897	14·249	12·876	11·501	9·785	9·063	10·196	11·845
16	13·253	13·219	14·179	16·309	16·653	15·966	15·623	13·562	11·845	10·676	12·601	13·768
17	13·802	13.974	15·004	16·309	16·447	14·762	13·562	12·188	11·157	10·951	11·363	12·468
18												
19	13·219	13·355	14·179	16·447	17·201	15·966	14·249	11·913	10·333	10·471	11·912	13·287
20	14·042	14·076	15·348	17·339	19·468	17·612	15·623	13·047	12·533	12·307	13·389	14·592
21	13·562	13·768	14·660	16·653	16·996	19·309	15·966	13·906	12·188	12·326	13·630	15·314
22	13·768	13·837	15·280	16·858	16·926	14·249	13·219	11·673	11·157	12·290	13·355	14·901
23	14·076	14·592	14·867	15·760	14·867	14·317	13·253	12·533	11·845	12·806	13·768	14·386
24	16·926	16·996	17·990	18·437	16·687	14·936	13·562	12·533	11·501	11·673	12·876	13·974
25												
26	10·814	12·463	14·317	17·201	17·339	16·653	14·901	13·287	11·879	10·965	12,669	14·557
27	14·745	13·562	16·653	16·926	17·682	17·339	15·280	13·219	11·569	11·431	12·601	14·042
28	14·111	13·906	16·102	17·750	17·819	15·897	14·386	12·360	11·501	10·505	11·569	13·684
29	15·742	14·936	15·862	17·201	17·339	16·653	15·623	13·906	12·533	12·463	12·944	13·974
30	14·454	14·660	15·280	16·378	16·653	16·068	15·108	13·219	12·188	12·394	12·944	13·837

OCTOBER, 1847.

Göttingen Mean Time.	LARGE DECLINATION (in arc).											
	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h
1	14'523	13'974	13'493	13'662	13'630	13'906	13'906	13'974	13'906	14'249	14'488	14'386
2												
3	14·936	13·974	13·493	13·630	13·700	13·389	13·562	13·837	13·906	14·042	14·179	14·162
4	14·660	13·906	13·263	13·562	13·493	13·630	13.906	13·562	13·906	13·974	13·871	13·700
5	14·076	13·219	12·601	13·425	13·630	13·562	13·940	14·076	14·936	14·488	14·867	14·728
6	14·179	13·493	13·219	13·562	13·389	13·562	13·562	13·906	13·562	14·523	14·317	14·386
7	14·728	13·768	13·389	13·630	13·906	13·562	13·906	13·974	13·906	13·547	14·283	14·351
8	14·386	13·493	13·150	13·562	13·837	13·940	14.557	14·592	14·936	15·004	15·657	15·486
9												
10	14·386	13·837	13·115	13·355	13·493	13·630	13·940	14·249	14·592	14·626	14·317	14·213
11	14·626	14·249	13·906	13·974	13·906	13·906	13·940	14·592	14·592	14·626	14·592	14·162
12	14·042	13·630	13·150	13·630	13·837	13·837	13·906	13·906	14·249	13·957	14·249	13·837
13	14·249	13·906	15·623	15·485	16·584	15·966	15·966	15·280	16·653	16·223	16·034	15·587
14	13·974	14·042	14·179	15·897	14·454	13·906	14·283	14.420	14·454	14·386	14·317	14·249
15	15·348	15·074	14·592	15·211	15·074	14·592	14·592	14·592	14·762	14·386	14·317	13·562
16												
17	14·317	14·111	14·454	14·317	15·348	14·523	14·523	14·526	14·249	13·906	14·213	14·249
18	14·386	13·630	13·768	14·523	14·523	14·317	14·592	14·420	14·592	14·351	14·523	14·592
19	14·523	14·936	14·249	14·660	14·523	14·317	14·179	14·523	14·249	14·592	14·798	14·249
20	14·111	13·768	13·150	13·871	13·871	13·802	13·906	13·906	14·592	14·488	14·317	13·562
21	14·798	14·076	13·425	13·768	13·974	13·837	14·249	14·249	14·249	14·249	14·179	13·321
22	14·592	13·630	13·734	13·837	13·734	13·562	13·630	14·249	13·974	14·592	15·280	14·249
23	14·317	15·623	17·819	16·378	18·025	16·721	18·369	20·086	16·721	17·201	16·721	15·966
24												
25	15·760	14·454	16·348	17·682	16·240	16·584	16·240	16·990	16·399	16·996	15·760	15·211
26	13·355	13·837	14·592	15·074	15·004	14·728	14·936	15·004	15·280	15·004	15·211	14·798
27	14·832	14·454	14·317	14·798	14·454	14·592	14·798	14·936	14·728	15·211	15·074	15·142
28	13·974	13·768	13·906	14·523	14·660	14·592	14·420	14·762	14·936	15·142	15·004	14·936
29	14.111	12·669	12·806	14.111	14·523	14·283	14.936	14·936	14·936	14·936	14·936	14·728
30												
31	14·592	13·974	14·249	14·626	14·936	14·592	14·420	14·592	15·280	13·348	15·280	15·038

NOVEMBER, 1847.

Göttingen Mean Time.	LARGE DECLINATION (in arc).											
	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h
1	14'728	14'249	14'042	15'074	15'280	14'762	15'004	15'280	15'074	15'142	15'280	15'004
2	13·389	13·493	13·837	14·660	14·694	14·936	14·592	14·936	14·936	14·798	15·416	13·905
3	15·897	13·974	14·317	14·660	14·179	14·592	14·936	14·936	14·930	14·936	14·936	14·592
4	14·249	13·596	13·906	14·471	14·317	14·249	14·076	14·762	14·076	14·592	14·317	14·529
5	14·592	13·664	13·562	14·249	14·420	13·906	14·592	14·728	14·592	14·249	14·520	14·249
6												
7	13·906	13·355	13·287	13·700	13·630	13·652	14·145	14·230	14·249	14·249	17·682	13·219
8	13·906	14·557	14·386	14·728	14·646	14·283	14·249	14·592	14·592	14·936	14·592	14·592
9	14·386	14·111	14·249	15·004	13·974	13·974	14·523	13·837	14·386	14·386	14·179	14·249
10	15·038	14·042	14·111	14·592	14·798	15·623	14·930	14·930	15·280	14·936	15·142	14·592
11	14·523	13·906	13·837	14·249	14·111	13·974	14·936	14·592	14·592	14·592	14·317	14·592
12	14·249	13·906	13·906	14·249	14·111	13·837	14·240	14·111	14·042	16·653	14·420	13·906
13												
14	14·660	13·906	13·906	15·004	14·592	14·249	14·626	14·592	14·317	14·936	14·592	14·317
15	14·592	13·700	14·111	14·523	14·454	14·076	13·700	14·076	14·249	14·660	14·249	14·317
16	14·454	14·179	14·523	15·004	14·317	14·420	14·420	15·450	15·450	15·553	15.897	15·553
17	13.974	13·906	14·454	14·351	14·386	14·249	14·420	14·420	14·420	14·317	14·249	13·906
18	14·179	13.630	13·940	14·592	14·179	14·317	14·420	14·592	14·249	13·906	14·592	14·936
19	13·974	13·562	13.940	14·317	14·454	14·249	14·249	14·420	14·502	15·623	15.828	16·996
20												
21	14·454	13·768	14·317	14·386	14·317	14·529	14·249	14·592	14·529	14·454	14·249	13·903
22	14·111	13·630	13·871	14·523	14·213	13·287	14·351	12·876	14·592	16·441	17·682	18·026
23	16·721	16·240	15·997	15·348	15·142	14·936	15·553	15·966	15·623	15·553	15·623	15·623
24	15·348	15·142	15·038	15·348	14·211	14·936	14·936	15·074	15·074	15·348	15·348	14·522
25	15·623	14·179	14·111	14·867	13·906	14·086	15·553	16·136	18·883	18.713	18·369	17·339
26	15·074	14·660	17·339	15·111	15.074	15·280	14·249	14·936	14·867	14·936	14·936	15.485
27												
28	15·142	14·283	14·592	14·728	14·592	15·108	14·249	13·906	14·592	14·867	14·592	14·596
29	14·936	14·762	14·454	14·660	15·348	14·249	14·592	14·592	15·280	14·936	14·728	14·660
30	13·974	13·562	13·974	14·454	14·523	14·420	14·523	14·351	14·454	14.523	14·111	14·008

OCTOBER, 1847.

LARGE DECLINATION *(in arc).*

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	14'249	14'523	15'211	16'309	16'996	15'966	15'280	13'906	13'219	12'876	13'562	14'249
2												
3	13·700	14·249	14·592	15·691	16·102	14·936	14·249	12·188	11·845	12·772	14·249	14·867
4	12·876	13·493	14 454	15·828	15·623	14·936	12.876	11·225	11·088	12·188	12·876	13·906
5	14·884	14·454	15·211	16·515	17·270	15·623	13·562	12·188	11·501	12·050	13·219	13·768
6	14·288	14·317	14·901	16·653	17·819	18·127	14·936	12·533	11·845	12·772	14·145	15·142
7	14·042	14·076	15·142	16·755	17·064	15·966	14·249	11·845	12·188	13·355	13·630	14·386
8	15·416	15·623	15·416	16·858	17·138	16·996	14.849	13·219	12·910	12·343	13·287	14·111
9												
10	13·991	14·317	15·211	16·789	18·025	17·682	15·280	14·249	12·188	12·188	13·081	13·562
11	13·957	13·974	14·592	16·926	16·653	15·966	14·936	13·219	12·533	12·188	12·669	13·493
12	13·906	13·854	14·592	16·240	15·897	15·966	15·280	14·249	13·184	13·150	14·249	14·111
13	15·280	15·314	15·416	15·828	16·378	15·966	15·623	14·249	13·219	13·013	13·287	13·768
14	13·459	13·459	14·317	15·587	15·794	16·343	15·966	13.906	12·876	13·837	14·936	15·416
15	13·150	13·493	14·728	15·897	16·515	15·966	14·300	13·257	12·533	12·944	13·562	14·042
16												
17	14·317	13·974	14·867	15·485	15·623	14·936	14·592	14·213	14·351	15·623	15·485	15·553
18	14·145	14·798	15·485	16·447	17·339	17·309	14·592	12·876	12·876	13·630	14·454	14·728
19	14·111	14·592	15·280	17·133	18·093	17·612	15·966	14·936	14·249	14·592	14·936	14·936
20	13·287	13·355	13·664	14·832	15·074	14·523	13·906	13·562	13·906	14·660	15·211	15·004
21	13·906	13·837	14·249	15·348	16·172	15·280	13·562	13·219	14·592	14·025	14·832	14·142
22	13·630	12·876	12·601	14·523	14·111	15·004	11·845	10·814	12·533	16·034	17·339	15·519
23	15·742	16·102	17·167	17·544	16·996	15·348	14·249	11·845	12·533	13·253	14·351	15·108
24												
25	14·936	14·626	16·309	17·682	18·025	16·309	15·623	13·906	13·287	13·389	13·355	13·115
26	14·454	14·557	14·902	16·515	18·299	17·682	15·966	13·906	13·562	14·145	14·936	15·280
27	15·004	14·660	15·004	15·966	16·721	16·996	15·966	13·940	13·906	14·936	14·386	14·386
28	14·557	13·974	14·626	16·172	16·996	16·996	15·623	14·936	15·004	14·008	14·145	14·592
29	14.317	14·283	14·798	15.657	16·343	16·653	15.553	13·906	13·562	13·974	14·179	15·211
30												
31	14·897	14·249	14·970	15·553	16·309	15·966	15·623	14·936	14·936	15·245	15·004	14·592

NOVEMBER, 1847.

LARGE DECLINATION *(in arc).*

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	15'416	14'901	14'936	16'309	16'515	16'034	15'280	14'317	13'906	14'351	14'798	14'592
2	13·630	14·042	14·626	15·485	15·657	14·592	14·249	14·249	14·592	14·592	15·142	16·172
3	14·317	14·283	14·179	14·936	15·553	14·213	12·876	12·533	12·567	13·768	14·867	14·609
4	14·008	14·042	14·076	15·074	14·936	16·136	14·042	13·219	13·459	13·906	14·249	13·906
5	13·596	13·389	13·837	15·004	15·280	15·623	13·957	12·533	13·219	13·493	13·355	13·287
6												
7	13·493	13·493	13·459	14·008	15·623	15·623	15·348	14·936	14·249	14·592	14·454	13·754
8	14·042	13·700	13·664	13·425	14·042	14·249	13·906	12·944	12·876	14·592	14·249	14·728
9	14·111	14·179	13·906	14·111	15·966	15·623	14·936	13·906	14·249	14·867	15·485	15·485
10	13·630	13·355	13·287	14·249	14·386	14·592	13·013	12·876	12·876	13·700	14·728	14·592
11	14·249	13·630	13·630	14·317	15·280	15·450	15·623	15·280	15·038	15·897	15·348	14·523
12	14·249	14·111	13·150	13·150	14·111	14·420	14·420	13·906	13·734	14·592	14·660	14·523
13												
14	14·179	13·493	13·802	14·317	14·936	15·425	15·450	14·249	13·906	13·837	14·317	14·867
15	13·906	13·837	14·042	14·936	15·623	15·108	14·249	13·562	13·871	14·420	14·386	14·936
16	14·936	14·592	14·592	14·076	14·386	14·420	13·734	13·355	13·562	13·940	14.111	14·386
17	14.179	14·042	13·527	14·076	14·592	14·936	15·280	14·762	14·936	15·074	15·587	14·762
18	13·768	13,974	13·974	13·837	14·454	14·249	14·249	13·219	13·321	13·906	15·211	14·728
19	15·553	15·142	13,871	12·910	13·219	13·389	13·906	14·249	14·249	15·142	15.897	15·897
20												
21	13·493	13·630	13·802	14·111	14·592	15·108	15·108	14·936	14·762	14·867	14·936	14·592
22	15·897	15·074	12·533	10·814	10·628	10·814	14·213	14·420	16·136	17·133	16·515	16·515
23	15·794	14·592	14·936	14·317	14·592	14·249	14·867	14·592	14·592	15·623	16·034	15·966
24	14·626	14·179	13·425	13·355	12·944	14·660	14·592	15·450	16·653	16·034	16·789	15·966
25	17·612	15·760	16·136	14·386	13·768	14·249	14·249	14·592	15·485	15·553	15·280	14·728
26	14·798	13·906	13·906	13·425	14·798	15.074	16·034	15·280	14·728	15·280	15·587	15.828
27												
28	14·867	14·249	13·974	13·562	15·592	14·936	13·734	12·703	12·533	14·042	15·142	15·004
29	14·798	14·317	14·660	14·249	14·936	14·936	15·108	14·660	14·592	13·837	13·355	13·837
30	13·906	13·768	13·355	13·837	14·817	16·102	15·966	14·936	13·802	13.365	13·700	13·837

DECEMBER, 1847.

LARGE DECLINATION (in arc).

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	14·179	13·906	13·871	14·317	14·249	14·420	14·042	14·111	14·076	14·592	13·974	14·249
2	13·837	13·562	14·179	14·317	14·042	14·454	14·249	14·762	15·691	16·309	15·485	16·211
3	13·906	13·837	13·906	14·249	14·728	14·936	14·936	16·038	14·728	14·592	14·249	14·592
4												
5	14·867	14·179	13·906	14·523	14·523	14·592	14·420	14·420	14·762	14·249	14·249	14·249
6	14·179	13·906	13·837	14·592	14·592	14·249	14·249	14·249	14·592	14·249	14·249	14·317
7	14·249	13·700	13·906	14·317	14·386	14·762	14·249	14·249	14·523	14·249	14·249	13·974
8	14·660	13·906	13·906	15·004	15·823	15·280	15·108	14·832	14·936	14·592	13·903	13·903
9	14·728	14·179	14·386	15·897	15·280	15·074	15·074	14·762	15·004	14·592	14·317	14·249
10	14·249	13·974	14·249	14·179	14·867	14·660	14·936	15·345	15·314	15·691	15·280	14·936
11												
12	14·454	14·592	14·592	14·798	15·004	14·249	14·901	14·936	14·119	14·592	14·249	14·249
13	14·660	14·592	14·592	15·280	14·798	15·074	14·592	14·488	14·351	14·317	13·974	13·906
14	14·179	14·592	14·179	14·660	14·867	14·249	14·386	14·523	14·936	14·249	13·906	14·249
15	14·111	14·592	14·592	14·936	15·004	14·523	14·420	14·523	14·317	14·249	14·111	13·974
16	13·768	14·111	14·386	14·660	14·592	14·523	14·420	14·213	14·283	14·249	14·386	14·249
17	14·798	13·355	14·317	14·660	14·936	17·716	19·056	19·845	19·845	19·400	18·093	18·025
18												
19	Lost	14·386	15·823	15·142	16·102	17·064	18·025	19·228	19·673	19·811	19·124	18·093
20	23·520	18·987	18·713	21·871	19·056	19·400	20·841	23·244	19·743	19·811	21·116	18·713
21	15·691	15·897	16·172	15·966	15·897	15·966	15·966	15·862	15·760	15·966	15·828	15·725
22	14·798	14·317	14·660	15·553	15·004	15·142	15·382	15·460	15·348	15·553	15·416	15·553
23	16·000	15·142	15·553	15·211	15·280	14·936	14·728	14·728	14·936	15·211	15·416	15·348
24	15·691	15·004	14·867	14·798	14·592	*						
25	†											
26	15·211	14·728	14·249	14·592	14·249	14·488	14·249	14·660	14·523	14·867	15·280	14·523
27	15·416	14·317	14·179	14·867	14·798	14·728	14·660	14·523	14·523	14·592	14·592	14·042
28	13·974	13·700	13·630	14·317	14·317	14·249	14·317	14·488	14·454	14·523	14·660	14·592
29	15·074	14·249	14·042	14·386	14·592	14·488	14·523	15·280	14·660	15·348	14·867	14·660
30	14·936	14·179	14·042	14·660	14·660	14·762	14·867	14·592	14·936	14·936	14·936	14·798
31	15·004	13·974	13·974	14·454	14·317	14·351	14·454	14·592	14·592	14·660	14·592	14·728

* These Observations were discontinued at 8 P. M. Bombay Mean Time, it being Christmas Eve, and were not resumed till 4 P. M. Bombay Mean Time, Sunday.

† Christmas Day.

DECEMBER, 1847.

Göttingen Mean Time.	LARGE DECLINATION (in arc).											
	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	14·243	14·249	13·906	12·876	13·768	15·108	14·592	14·249	13·562	13·974	14·042	14·867
2	14·728	14·179	13·837	13·219	14·249	13·700	13·974	13·013	14·249	13·700	13·562	14·111
3	14·592	14·454	13·802	13·425	14·592	15·004	14·488	13·906	13·287	13·355	14·179	14·936
4												
5	14·249	14·249	13·906	13·219	13·974	14·936	15·486	14·728	15·211	15·280	14·936	14·592
6	14·386	14·592	14·317	14·249	13·906	14·420	14·488	14·936	15·108	14·936	14·728	14·592
7	14·903	13·287	13·150	13·355	14·042	14·249	15·176	15·623	16·136	16·240	16·721	15·623
8	13·562	13·493	13·974	12·601	12·906	13·219	14·145	14·008	13·219	12·876	13·700	13·974
9	13·906	13·562	12·806	13·219	14·111	14·762	15·038	14·523	14·420	14·660	14·660	14·454
10	14·728	14·249	14·179	13·837	14·179	14·867	15·348	15·966	15·691	15·966	15·553	15·416
11												
12	13·630	13·906	13·630	12·533	13·493	13·425	13·253	13·630	15·734	14·728	15·348	14·592
13	13·562	13·287	13·013	13·219	14·249	14·936	14·660	15·280	15·623	15·280	14·592	13·974
14	13·836	13·150	13·493	12·433	13·630	14·488	14·008	14·076	14·213	14·523	13·906	13·837
15	13·837	13·562	13·906	13·493	14·111	14·762	15·519	15·931	15·553	14·692	13·562	13·150
16	14·179	13·562	13·287	13·219	13·493	13·906	14·249	15·176	15·176	15·142	14·592	13·493
17	16·515	15·623	14·936	12·944	13·974	12·772	13·562	15·142	15·416	15·280	15·966	14·936
18												
19	17·064	15·623	10·814	11·088	13·219	16·653	19·914	19·066	17·098	20·635	22·215	24·000
20	18·575	16·996	16·653	14·179	12·806	11·053	9·372	8·994	9·716	11·500	13·150	14·179
21	15·623	15·280	15·553	15·348	15·280	15·760	14·867	14·867	14·592	15·211	15·211	15·382
22	15·348	15·142	14·660	13·906	14·317	14·660	14·660	14·523	13·562	14·867	16·209	16·653
23	15·328	15·142	14·728	13·768	13·768	14·072	14·179	13·249	14·111	15·250	15·966	16·378
24												
25												
26	14·592	14·660	14·660	13·562	14·523	15·108	15·004	15·004	14·351	14·317	14·936	15·348
27	13·768	13·630	14·179	14·042	14·867	14·592	13·974	13·150	12·806	13·081	13·493	13·837
28	14·523	14·179	13·906	14·386	15·623	16·721	16·447	15·142	13·906	14·249	14·523	14·179
29	14·592	14·798	14·592	14·867	15·691	13·425	15·828	14·317	14·867	15·623	15·623	15·587
30	14·936	14·867	15·280	14·317	15·623	16·309	16·516	15·348	14·762	14·867	15·142	14·901
31	14·523	14·317	14·867	15·004	15·280	15·966	14·867	12·463	12·015	13·219	14·179	14·798

BOMBAY MAGNETICAL OBSERVATIONS.

SMALL DECLINATION MAGNETOMETER

(in arc).

JANUARY, 1847. Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*											
	Noon.	2h 0	4h 0	6h 0	8h 0	10h 0	12h 0	14h 0	16h 0	18h 0	20h 0	22h 0
1	14·47	14·57	14·47	14·47	14·47	13·94	13·88	13·42	14·09	14·20	12·37	14·99
2												
3	14·62	13·94	14·40	13·94	13·94	14·40	13·94	13·62	13·42	14·20	15·42	13·99
4	14·14	14·09	13·94	13·94	14·47	14·40	14·08	13·42	14·25	14·78	14·20	17·06
5	16·50	15·51	16·04	15·07	14·99	14·99	14·99	14·47	16·56	15·82	15·51	15·77
6	15·25	15·45	15·51	14·99	15·51	15·40	14·99	14·47	16·56	16·07	15·25	15·92
7	15·40	14·99	15·51	14·99	14·99	14·73	13·99	13·96	15·51	15·92	13·94	14·99
8	15·45	14·62	15·09	14·99	14·99	14·88	14·47	14·47	15·71	13·94	12·37	14·57
9												
10	15·30	14·99	14·99	14·99	14·99	14·99	14·99	15·51	16·56	15·40	14·47	14·99
11	14·67	14·20	15·40	14·99	14·73	14·47	14·47	13·94	14·74	14·99	13·94	13·94
12	14·35	14·47	14·57	14·47	14·47	14·73	14·99	14·47	15·51	15·40	13·42	13·94
13	14·66	14·20	14·47	14·40	14·47	14·47	14·20	13·99	14·99	14·20	13·91	14·14
14	14·40	13·99	14·47	14·47	14·47	13·94	13·94	13·42	14·30	14·09	13·42	13·42
15	14·14	14·40	14·47	14·47	14·47	14·35	13·94	13·94	15·45	14·99	14·78	14·47
16												
17	14·52	14·20	14·04	14·47	14·99	14·57	14·20	14·35	15·92	15·51	13·62	14·47
18	14·93	13·52	14·35	14·47	14·47	14·47	14·20	13·88	15·45	12·37	12·90	14·42
19	15·51	13·99	13·99	14·20	14·47	13·94	13·42	13·42	14·83	12·37	14·04	16·04
20	15·30	13·68	14·30	14·57	14·47	14·04	13·94	13·42	14·47	13·42	13·94	14·99
21	14·52	13·94	14·47	14·99	14·57	14·40	13·99	13·88	14·93	13·78	12·90	15·40
22	16·04	14·35	14·47	14·47	14·47	13·94	13·88	13·42	13·88	12·90	12·90	14·47
23												
24	14·99	14·20	14·04	14·47	13·94	13·94	13·42	13·42	14·30	14·57	11·33	13·42
25	14·93	14·30	14·47	13·94	14·09	13·94	13·94	13·52	14·67	14·99	13·42	14·99
26	14·04	13·94	13·94	13·94	13·94	13·94	13·99	13·42	13·42	14·30	12·37	14·94
27	14·99	14·40	14·40	14·47	14·47	14·47	14·09	13·94	14·35	14·78	13·42	14·57
28	14·93	13·94	14·04	13·94	14·47	14·47	14·47	14·47	14·57	14·52	12·90	14·99
29	13·99	13·42	14·47	14·99	15·25	15·97	16·04	14·99	14·40	14·93	15·25	16·66
30												
31	16·04	14·47	14·47	14·99	15·51	17·06	16·61	15·15	13·94	14·40	13·46	15·87

FEBRUARY, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.										
	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	15'40	13'36	14'99	13'94	13'94	13'94	13'88	13'42	13'42	12'90	12'63	14'99
2	14·99	13·10	13·42	13·42	13·42	13·42	13·42	13·31	13·42	13·36	13·65	14·67
3	13·94	13·36	13·42	13·42	13·42	13·68	13·42	12·90	13·16	12·90	12·90	14·47
4	14·47	13·94	13·94	13·42	13·42	13·42	13·42	13·42	13·47	11·79	11·86	13·94
5	13·78	13·21	13·42	13·31	13·31	13·42	12·83	12·78	13·94	13·10	12·47	12·95
6												
7	14·40	13·42	13.94	13.68	13·42	13·94	13·94	13·42	13·99	12·31	11·85	14·04
8	13·99	12·95	13·16	13·42	13·42	13.42	13·42	12·78	14·04	13·26	12·63	13·52
9	13·99	13·16	13·42	13·94	13·94	13·83	13·42	13·42	14·04	13·83	12·37	13·88
10	13·99	12·90	13·05	13·42	13·42	13·42	13·00	12·95	13·42	13·42	12·37	13·94
11	13·31	12·83	12·90	12·90	12·95	13·16	12·90	12·83	13·31	13·36	12·90	13·54
12	12·95	12·42	12·78	12·90	13·42	13·68	13·42	12·90	13·42	13·16	12·90	13·73
13												
14	13·68	12·37	13·10	13·42	13·45	13·94	13·32	13·52	13·78	13·94	13·42	13·88
15	—	13·26	13·42	13·42	13·42	13.10	12·78	13·31	14·47	13·42	12·90	14·93
16	13·99	13·83	13·83	13.42	13·42	13·42	13·42	13·47	14·47	13·57	11·85	14·09
17	14·47	13·42	13·94	13·94	13·42	13·94	13·42	13·42	13·94	12·37	11·33	13·42
18	13·99	13·42	13·42	13·42	13·42	13·42	13·42	13·62	13·36	11·59	12·37	13·52
19	14·93	13·94	13·42	13.42	13·42	13·42	13·42	13·99	14·99	12·90	12·11	13·94
20												
21	13·42	13·42	13·42	13·42	13·42	13·21	13·00	13·42	14·88	13·16	11·85	13·36
22	14·20	14·40	14·47	13·42	13·94	14·14	14·88	13·42	15·19	14·47	12·11	12·47
23	13·94	13·42	13·42	13·94	13·94	13·42	13·42	13·36	14·93	14·99	13·42	12·48
24	14·88	13·26	13·94	13.94	13·94	14·20	13·62	13·88	13·31	12·90	12·63	13·21
25	14·30	13·42	14·47	14·47	14·47	14·20	13·00	13·36	14·35	13·83	13·68	14·35
26	14·47	13·99	13·94	13·94	13·42	13·42	13·42	13·94	14·47	13·68	11·50	12·63
27												
28	14·20	13·21	13·42	13·42	13·42	13·42	13·42	13·42	14·62	13·68	11·85	11·48

MARCH, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.										
	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	12'90	12'63	13'42	14'99	15'25	16'04	15'19	15'40	14'88	13'47	11'33	12'37
2	13·94	13·42	13·31	12·90	13·42	13·42	12·90	13·42	15·45	15·19	12·37	12·37
3	13·26	12·95	12·95	12·90	13·42	12·90	12·78	12·83	14·88	15·25	12·90	11·85
4	13·47	12·90	13·42	13·42	13·94	14·04	13·42	13·94	15·40	14·62	13·94	13·68
5	13·94	13·42	13·42	13·42	13·42	13·57	13·42	13·42	14·62	13·99	11·85	12·42
6												
7	13·99	13·16	13·42	13·94	13·94	13·68	13·26	13·42	14·47	14·40	12·37	12·01
8	14·67	13·31	13·52	14·47	13·94	14·20	13·94	13·42	14·47	14·99	12·90	14·47
9	14·47	14·14	13·52	13·94	13·94	13·42	13·42	13·42	14·93	14·93	12·90	12·47
10	13·94	12·90	13·42	13·42	14·47	13·94	13·94	13·83	14·35	14·47	12·37	12·37
11	13·88	13·42	13·36	13·42	13·42	13·42	13·42	13·42	15·09	15·97	13·16	12·26
12	13·16	12·83	12·90	12·90	13·16	13·10	12·90	12·83	13·94	14·20	12·31	12·42
13												
14	13·42	12·90	13·83	13·94	13·94	13·42	12·90	12·83	14·99	16·50	13·68	13·94
15	14·73	13·26	13·78	13·94	13·94	13·68	13·31	13·42	14·47	14·47	11·96	12·05
16	13·16	12·90	13·42	13·68	13·42	13·42	13·37	13·05	14·73	14·99	12·63	12·47
17	12·95	12·78	13·42	13·42	13·42	12·90	12·37	11·95	14·14	14·99	12·37	12·37
18	12·68	12·37	12·78	12·90	13·42	12·93	12·37	12·37	13·88	14·20	12·90	12·47
19	13·00	14·47	14·47	15·51	16·04	15·09	14·35	14·99	15·51	14·09	12·57	12·37
20												
21	14·78	13·94	13·94	13·94	13·94	13·42	13·88	14·47	15·92	14·73	12·63	12·11
22	13·83	12·90	13·31	13·42	13·42	13·42	13·42	13·42	16·56	15·56	12·31	11·85
23	13·94	13·10	13·42	13·42	13·42	13·42	13·16	13·88	15·45	13·99	11·43	12·11
24	13·88	14·20	12·90	12·63	12·47	12·63	12·31	12·90	14·93	13·94	11·85	11·23
25	12·37	12·37	12·90	12·90	12·90	13·00	13·16	13·47	14·92	14·40	10·86	11·43
26	12·78	12·95	13·42	12·90	12·90	12·95	12·90	13·52	14·99	13·91	11·59	13·31
27												
28	14·67	13·99	13·94	13·94	14·47	14·47	13·94	13·99	15·45	14·83	12·11	14·04
29	15·09	13·47	13·42	13·42	13·42	13·68	14·01	14·47	14·88	13·94	11·33	12·37
30	14·47	13·42	13·52	13·42	13·94	13·42	13·42	14·47	15·77	14·09	10·94	11·01
31	13·00	12·68	12·90	12·90	13·42	13·42	12·90	13·52	15·40	15·25	12·90	11·74

APRIL, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.											
	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	12·78	13·36	12·95	12·90	13·42	12·99	12·90	12·90	14·52	13·62	11·07	11·33
2	13·42	12·90	12·90	12·63	13·68	13·42	13·42	13·42	15·51	14·73	10·81	11·33
3												
4	13·42	13·42	13·42	13·94	13·94	13·68	14·35	14·47	16·32	15·40	12·11	13·26
5	13·73	13·42	13·42	13·94	13·94	13·94	13·42	13·94	15·92	14·99	11·33	12·37
6	13·94	13·00	13·42	13·42	13·42	13·42	13·42	13·42	13·94	13·83	11·85	11·79
7	13·99	12·37	12·90	13·94	14·99	14·35	14·47	14·47	16·04	15·51	13·42	13·68
8	13·88	13·21	13·94	13·94	13·94	13·94	13·16	14·52	16·30	14·78	11·33	12·90
9	13·94	13·42	13·42	13·94	13·42	13·68	13·26	13·99	15·51	14·47	11·85	12·90
10												
11	14·47	12·90	12·90	12·90	13·42	13·42	13·42	14·99	16·71	12·90	10·28	12·37
12	14·47	12·90	12·90	12·90	13·42	13·94	13·77	14·35	13·94	9·24	8·71	10·69
13	12·90	12·90	12·90	13·42	13·94	13·83	13·88	13·62	16·24	13·42	11·33	11·90
14	13·42	12·90	13·42	13·94	14·47	14·99	13·94	15·51	15·92	13·16	12·63	10·38
15	13·26	13·42	13·42	13·42	13·94	13·94	13·52	14·99	16·19	12·42	9·76	10·81
16	12·63	12·78	12·90	12·90	13·94	13·94	13·42	14·99	16·56	13·42	11·95	13·42
17												
18	15·51	14·47	14·57	14·47	14·99	14·99	14·99	16·04	16·50	13·94	11·90	13·00
19	14·20	14·47	14·47	14·52	14·99	14·99	14·73	15·51	15·51	12·37	12·55	14·47
20	17·13	16·04	16·04	16·04	17·18	17·08	16·97	17·18	16·04	13·05	11·07	12·78
21	14·73	17·08	16·04	15·51	16·04	16·09	15·51	17·39	17·08	12·90	12·37	14·47
22	15·51	14·47	14·47	14·99	14·99	14·99	15·26	16·93	17·08	13·94	12·37	13·94
23	15·51	14·99	14·47	14·99	14·99	14·99	15·04	16·56	16·56	14·20	12·37	13·83
24												
25	14·99	14·47	14·47	14·47	14·99	14·47	14·47	15·92	14·99	12·37	12·11	13·42
26	14·47	14·47	13·94	14·47	14·47	14·47	14·88	16·14	16·04	13·42	12·37	13·94
27	15·25	14·47	14·47	14·99	14·99	14·99	15·04	16·56	16·76	13·88	13·68	15·51
28	16·24	15·19	14·47	14·47	14·47	14·99	14·93	16·04	14·99	12·37	12·37	14·35
29	15·25	13·94	14·47	14·47	14·99	14·47	14·99	16·82	16·24	13·47	12·63	14·47
30	16·30	14·99	13·94	14·99	15·51	15·51	15·92	16·14	16·56	14·47	13·42	14·47

MAY, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.											
	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1												
2	13·99	15·09	14·47	14·99	14·99	14·99	14·99	15·82	18·18	15·87	12·11	12·90
3	15·09	15·19	14·52	14·99	14·99	14·99	14·99	16·04	18·13	15·51	12·90	13·26
4	14·47	14·78	14·47	14·99	14·99	14·99	14·47	15·51	17·80	14·47	10·81	12·37
5	14·78	15·19	14·47	14·99	14·99	14·99	14·93	16·50	16·30	13·42	14·99	12·37
6	14·47	14·99	14·57	14·99	15·51	14·99	14·99	16·30	17·48	14·99	13·42	13·26
7	15·25	14·73	14·47	14·99	14·99	14·99	14·52	16·14	16·66	12·37	14·47	17·48
8	19·43	17·08	15·56	14·51	14·99	15·09	15·40	16·19	16·56	13·94	11·36	14·47
9												
10	16·50	15·45	14·99	14·99	15·51	15·45	15·35	16·56	17·08	14·20	12·90	13·42
11	15·51	14·83	14·67	14·99	14·99	15·25	15·51	16·92	17·18	14·47	12·63	14·20
12	16·40	15·82	15·14	15·51	15·51	15·51	15·45	16·97	17·08	13·42	11·90	14·47
13	16·56	14·99	14·99	14·99	14·99	14·99	14·99	17·08	17·18	13·16	13·42	14·47
14	15·97	16·04	14·99	14·99	14·99	15·51	15·51	17·08	17·08	12·90	11·59	12·11
15	13·42	13·68	14·47	15·51	14·99	15·51	15·51	17·18	17·08	13·42	13·42	14·99
16	17·80	16·14	14·47	17·08	16·04	15·56	15·51	16·50	16·97	14·99	13·42	13·26
17												
18	15·72	15·14	14·47	14·99	15·25	15·45	15·51	16·56	17·80	13·56	11·09	12·90
19	14·78	15·19	14·14	14·47	14·47	14·99	15·09	16·56	16 56	13·94	12·31	12·37
20	13·94	14·99	14·47	14·99	15·51	15·09	14·99	16·24	18·13	16·04	13·94	14·47
21	15·30	15·30	14·57	14·99	14·99	14·99	14·73	15·66	15·71	13·42	12·90	13·94
22												
23	15·40	14·99	14·47	14·99	14·99	14·73	14·83	16 19	16·04	13·52	12·37	13·00
24	14·99	14·99	14·35	14·47	14·73	14·52	14·47	15·51	16·04	13·94	13·94	14·04
25	14·47	14·25	13·94	14·47	14·99	14·99	14·83	16·09	15·97	15·25	13·94	14·47
26	14·25	14·47	14·47	14·93	14·99	14·73	14·99	16·50	16·56	13·94	11·85	13·93
27	14·62	14·04	13·62	13·94	14·47	14·99	16·04	16·82	17·18	12·90	12·37	13·42
28	14·20	14·40	14·47	14·47	14·47	14·93	15·09	16.56	17·08	13·94	12·11	12·26
29												
30	14·47	14·57	14·04	14·47	14·47	14·88	14·73	16·40	16·97	14·62	11·59	11·90
31	14·35	13·99	13·88	13·94	14·47	14·35	14·52	15·82	16·30	12·90	11·23	11·02

JUNE, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.										
	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	13·88	14·14	13·94	13·42	13·94	14·99	13·94	14·99	14·99	14·56	14·99	14·57
2	14·73	14·35	14·47	14·09	13·88	13·94	13·94	14·47	13·99	13·99	14·35	14·47
3	14·47	14·52	14·40	13·83	13·62	13·94	13·94	13·94	13·94	14·04	14·04	14·30
4	14·20	14·47	14·47	14·25	13·94	13·94	13·42	13·94	13·97	14·40	14·47	14·47
5												
6	13·94	13·94	13·94	13·94	13·57	13·94	13·94	13·94	14·47	14·20	14·62	14·73
7	14·99	14·47	14·40	13·94	14·25	14·47	13·94	14·47	14·07	14·47	14·52	14·47
8	14·88	14·35	13·42	13·42	13·42	13·94	13·99	14·47	14·47	14·62	14·73	14·47
9	14·47	14·73	14·30	13·88	13·88	13·94	13·94	13·94	14·47	14·40	14·57	14·99
10	14·40	14·99	14·99	14·47	14·57	14·99	14·99	14·93	14·99	14·99	14·99	14·99
11	14·47	14·88	14·78	14·20	14·93	14·99	14·47	14·99	14·99	15·51	15·09	14·93
12												
13	14·47	14·35	14·47	14·88	15·19	14·99	15·51	15·25	14·99	14·99	15·09	15·40
14	13·62	15·45	14·78	15·51	15·51	15·51	15·51	16·04	16·04	15·77	15·40	15·51
15	15·04	15·35	14·99	14·04	14·04	14·47	14·73	14·99	15·51	14·51	15·92	15·51
16	15·61	16·09	15·82	14·99	14·99	14·99	14·99	14·99	15·51	15·51	15·51	15·97
17	13·94	14·67	14·88	14·47	14·47	14·47	14·99	14·99	14·99	15·51	15·51	15·51
18	14·73	14·99	14·99	14·47	14·47	14·47	14·99	14·99	14·99	14·99	14·99	15·35
19												
20	15·09	15·35	14·99	14·99	14·88	14·47	14·99	14·99	14·99	15·14	15·09	15·19
21	14·47	14·47	14·35	14·20	13·94	14·47	14·47	14·73	14·99	15·51	16·04	16·09
22	14·99	15·09	15·51	14·47	14·35	14·47	14·47	14·99	14·99	14·99	14·99	14·99
23	16·04	15·51	14·52	14·40	14·47	14·47	14·47	14·47	14·47	14·99	14·73	14·73
24	15·51	14·99	14·57	13·99	13·94	13·94	13·94	14·20	14·47	14·40	14·47	14·47
25	15·56	15·45	14·99	14·30	14·35	14·47	14·47	14·47	14·99	14·47	14·47	14·88
26												
27	15·61	15·56	14·99	14·47	14·35	13·94	13·94	14·47	14·47	14·73	14·99	14·93
28	14·40	14·40	14·47	13·94	13·94	13·94	14·20	14·47	14·47	14·88	14·57	13·22
29	15·09	14·47	14·40	13·94	13·94	13·94	13·94	13·94	14·47	14·99	14·73	14·99
30	15·04	15·19	14·47	13·94	13·94	13·94	14·47	14·47	14·47	14·52	14·47	14·47

JULY, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.										
	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	13·94	14·25	14·47	14·47	14·25	14·20	14·47	14·47	14·47	14·35	14·52	14·73
2	12·95	13·88	13·42	13·05	13·00	13·42	13·42	13·94	13·52	13·22	13·22	13·88
3												
4	13·90	13·73	13·49	13·42	13·42	13·42	13·94	13·94	13·94	14·20	14·47	13·94
5	13·68	14·20	14·20	13·62	13·42	13·42	13·42	13·94	13·94	13·94	13·99	14·20
6	14·04	14·47	13·94	13·42	13·42	13·94	13·42	13·94	13·94	14·20	13·88	13·94
7	14·20	14·73	14·47	13·47	14·30	14·47	14·47	14·04	14·99	14·93	14·99	14·99
8	13·99	13·94	13·83	13·94	13·94	13·94	14·04	14·47	14·47	14·47	14·47	14·47
9	14·47	14·78	14·47	14·57	13·42	14·47	14·74	14·99	14·99	16·04	16·14	16·30
10												
11	14·99	14·99	14·47	14·47	14·35	14·47	14·47	14·47	14·99	14·99	15·51	15·51
12	14·73	14·52	14·99	14·47	14·47	14·47	14·47	14·99	14·99	15·51	15·51	15·51
13	14·57	15·30	14·47	13·94	13·94	14·47	14·47	14·99	15·51	15·51	15·04	15·04
14	14·30	14·78	14·99	13·99	14·04	14·47	14·47	14·99	14·99	15·25	15·51	14·99
15	14·47	15·25	14·99	14·57	14·47	14·99	14·99	14·99	14·99	14·99	14·99	14·99
16	15·25	15·71	15·25	14·25	13·94	13·94	14·47	14·47	14·47	14·99	14·99	14·99
17												
18	14·52	14·47	14·47	13·94	14·04	14·47	14·47	14·99	14·60	14·52	14·47	14·73
19	14·47	14·99	14·78	14·47	13·94	13·94	13·94	13·94	14·40	14·47	14·47	14·47
20	15·40	15·40	14·99	13·94	13·83	13·42	13·94	13·94	14·47	14·47	14·47	14·47
21	15·51	15·45	14·78	14·25	13·99	13·94	14·20	14·35	14·20	14·40	14·40	14·47
22	15·97	15·19	14·47	14·47	13·94	13·42	14·20	14·47	14·47	14·99	14·99	14·88
23	14·47	14·47	14·47	14·20	13·94	13·94	13·78	14·09	14·47	14·47	14·93	13·40
24												
25	16·35	16·04	15·51	14·47	14·04	14·25	14·40	14·47	14·47	14·35	14·47	14·47
26	14·09	14·47	14·78	13·99	14·47	14·20	14·35	14·20	14·62	14·73	14·47	14·99
27	14·47	14·67	14·47	13·94	13·94	13·94	13·94	13·94	13·94	14·04	13·35	13·22
28	15·30	15·56	14·99	13·94	13·94	13·94	14·47	14·47	13·94	14·40	14·20	14·47
29	13·83	14·47	14·47	13·94	13·94	13·94	13·94	13·94	14·47	14·47	14·47	14·52
30	16·09	15·92	14·99	13·94	14·09	14·47	13·94	13·94	14·47	14·04	14·47	14·73

JUNE, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.											
	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	14'47	14'57	15'97	17'23	17'08	15'97	14'35	13'42	12'63	13'00	13'42	14'09
2	14·52	14·99	16·35	17·43	17·53	16·56	14·99	14·09	12·90	12·37	13·00	13·88
3	14·35	14·47	15·71	17·18	17·18	16·35	14·73	13·62	12·37	12·37	12·90	13·73
4	14·47	14·99	16·04	16·45	16·45	15·51	14·47	—	12·37	12·73	13·88	13·99
5												
6	14·93	15·45	16·61	17·39	17·08	16·04	15·51	13·83	12·63	12·90	13·42	13·94
7	14·88	15·51	16·56	16·82	17·08	16·04	14·88	14·47	13·94	12·90	13·26	14·47
8	14·47	15·51	16·45	17·18	17·13	16·04	14·93	13·57	12·37	12·37	12·90	13·94
9	14·67	15·45	16·24	17·08	16·56	14·99	13·94	12·63	11·85	11·85	12·78	13·42
10	15·04	15·51	16·56	16·82	15·77	14·20	12·37	11·85	11·85	11·07	11·90	12·21
11	15·51	15·92	17·08	16·87	16·66	14·99	13·62	12·57	11·85	11·33	12·31	13·31
12												
13	16·40	16·45	17·60	18·44	17·60	16·04	15·51	14·25	13·42	12·78	12·42	13·16
14	16·04	16·61	18·23	19·06	18·18	16·06	15·25	14·20	13·42	13·31	13·42	14·40
15	16·04	16·56	17·86	18·85	18·13	16·04	14·47	12·95	12·37	12·47	13·42	14·52
16	16·04	16·04	18·13	19·11	18·65	16·56	14·47	12·90	11·85	12·42	12·90	13·00
17	15·51	15·51	16·56	17·70	17·80	16·30	14·04	12·90	12·37	12·83	13·42	14·14
18	15·51	16·04	16·50	16·56	16·56	15·51	13·94	12·37	11·85	11·85	12·37	13·47
19												
20	15·40	15·56	16·56	17·28	16·61	16·04	14·20	13·42	12·63	12·37	12·90	13·99
21	15·92	16·04	16·35	16·35	15·51	13·99	13·42	11·59	10·28	11·59	13·36	14·57
22	14·99	15·61	16·66	17·34	17·08	14·93	13·88	13·57	13·42	13·94	14·73	15·51
23	14·73	15·40	16·35	17·03	17·13	16·04	14·99	14·47	14·47	14·20	14·57	15·25
24	14·93	15·51	17·08	17·39	16·92	16·35	15·51	14·47	13·94	14·47	15·04	15·51
25	14·99	15·61	16·56	16·35	15·71	14·47	13·42	12·63	11·33	12·47	13·83	14·47
26												
27	14·99	15·51	—	16·76	16·09	14·88	12·63	12·37	12·37	12·73	12·37	13·36
28	14·47	14·88	16·45	16·56	16·14	14·47	14·73	13·94	14·47	14·73	14·40	14·88
29	14·99	16·04	17·13	17·28	17·18	15·56	12·95	12·37	11·85	12·78	13·42	14·25
30	14·93	15·51	16·04	14·99	13·94	12·90	11·33	9·84	11·33	10·69	11·74	13·00

JULY, 1847.

Göttingen Mean Time.	SMALL DECLINATION MAGNETOMETER *(in arc)*.											
	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	14'73	14'99	16'61	17'60	16'61	14'93	13'05	11'79	10'81	11'33	11'85	12'00
2	13·94	14·47	15·97	16·24	15·40	13·42	12·11	10·28	9·76	10·38	11·30	12·63
3												
4	14·20	14·99	16·04	16·56	15·97	14·40	13·73	12·68	11·85	10·86	11·35	12·78
5	14·25	14·57	15·61	16·24	16·24	16·04	14·47	12·11	11·33	10·91	11·74	13·16
6	14·47	15·19	16·30	17·39	16·04	13·88	12·05	11·59	11·33	11·33	11·79	12·90
7	14·99	15·51	16·61	17·60	16·87	15·25	13·42	11·59	11·85	12·37	12·90	13·42
8	14·67	15·09	16·30	16·56	15·66	14·83	15·19	14·73	14·47	13·94	13·88	13·00
9	16·30	16·56	16·66	16·50	17·60	15·51	13·42	11·85	11·33	11·85	11·85	12·90
10												
11	15·51	15·92	17·02	16·71	15·51	13·16	11·33	10·43	10·81	11·38	12·42	13·33
12	15·92	16·56	17·60	18·13	18·06	16·04	13·42	12·37	11·33	12·11	12·37	13·42
13	14·99	15·51	16·82	17·08	16·82	15·92	14·25	13·42	12·90	12·37	12·90	13·57
14	14·99	15·30	16·14	16·35	15·51	14·47	13·16	11·85	11·85	11·48	12·00	13·31
15	14·99	14·99	16·24	16·82	16·71	15·30	13·42	12·26	11·85	11·85	12·90	14·09
16	14·99	15·51	16·56	16·92	16·56	15·56	14·47	13·42	12·63	12·37	12·90	12·63
17												
18	14·99	15·30	16·19	16·14	15·35	14·62	13·78	13·10	12·11	12·11	12·37	13·05
19	14·93	15·51	17·08	18·13	18·13	16·56	12·90	9·76	9·24	11·27	13·00	14·47
20	14·47	15·09	16·56	17·08	16·82	15·35	14·73	13·94	14·20	13·94	13·42	14·83
21	14·62	15·61	17·13	17·75	16·92	16·04	14·47	13·42	13·94	13·52	14·88	15·45
22	15·40	16·04	17·08	17·18	16·04	13·42	13·10	12·37	12·37	12·78	14·04	14·93
23	14·99	15·51	17·08	17·08	16·04	14·88	13·94	13·21	12·90	13·42	13·99	14·47
24												
25	14·93	15·45	16·76	17·13	16·45	15·09	14·09	13·36	12·63	11·14	11·85	13·42
26	15·04	15·09	16·56	15·79	15·04	13·68	12·37	12·37	12·63	12·90	13·68	14·47
27	14·40	15·09	16·40	16·24	15·45	14·47	12·90	11·90	12·05	12·37	12·90	14·67
28	14·57	14·99	16·09	16·56	16·09	14·99	13·68	11·85	11·33	11·85	12·37	13·26
29	14·93	15·30	16·56	17·60	17·43	15·82	15·04	13·88	13·42	14·47	14·99	15·56
30	14·73	14·99	15·61	15·51	14·47	13·42	12·90	12·37	12·37	12·90	13·42	13·62

AUGUST, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	13·62	13·94	14·04	13·94	13·88	13·94	13·94	13·94	14·47	14·47	14·47	14·47
2	13·42	13·68	14·09	13·73	13·42	13·42	13·94	13·94	14·47	14·99	14·93	14·93
3	13·42	13·83	14·35	13·57	13·42	13·94	13·94	13·94	14·20	14·47	14·47	14·99
4	13·42	14·09	13·73	13·83	13·42	13·42	13·94	13·94	13·94	14·47	14·47	14·47
5	13·68	13·83	14·47	14·88	14·35	14·47	14·47	14·99	14·99	15·25	14·99	15·51
6	13·94	14·47	14·47	13·47	13·83	13·94	13·94	14·09	14·99	14·73	14·99	15·25
7												
8	14·99	15·40	14·47	13·94	13·94	13·94	14·40	14·47	14·67	14·99	15·04	14·99
9	14·99	14·47	14·47	13·99	13·94	13·94	13·94	13·94	14·47	14·52	14·78	14·99
10	12·90	14·14	14·47	13·94	13·88	14·47	14·47	14·47	14·47	14·99	14·99	14·99
11	13·42	13·88	13·94	13·94	13·94	13·94	14·47	14·47	14·99	14·99	14·99	14·78
12	15·51	14·99	14·35	13·94	14·35	14·47	14·47	14·47	14·47	14·73	14·67	14·78
13	15·77	15·30	14·47	13·94	13·94	13·94	13·94	14·47	14·47	14·47	14·52	14·47
14	13·68	14·04	14·99	14·09	14·99	16·04	14·99	14·47	14·47	14·99	14·99	14·67
15												
16	15·30	14·99	13·94	13·42	13·42	13·94	13·94	14·47	14·47	14·47	14·93	14·93
17	15·40	15·51	14·47	13·42	13·00	13·42	14·47	13·94	13·94	14·57	14·73	14·73
18	15·51	15·61	14·73	13·68	13·83	13·94	14·47	14·47	14·47	15·99	15·25	15·45
19	14·40	14·67	14·52	14·47	14·47	14·20	14·99	14·99	14·99	14·73	14·99	14·99
20	14·99	15·40	14·99	14·78	14·35	14·47	14·47	14·47	14·47	14·57	14·67	14·99
21												
22	17·60	17·70	16·50	16·04	16·04	16·04	16·04	14·99	14·99	14·99	14·99	14·99
23	16·04	15·56	14·73	14·47	14·25	14·47	14·47	14·99	15·51	15·51	15·04	15·40
24	16·04	16·56	15·97	14·99	14·88	14·99	14·99	14·99	14·99	14·99	15·09	15·04
25	16·50	17·08	16·56	16·04	16·04	16·04	16·51	14·99	14·99	15·04	14·99	14·88
26	14·73	14·88	14·99	14·14	13·94	13·94	14·47	14·47	14·99	14·99	14·99	14·88
27	15·45	15·56	14·73	14·20	13·94	13·94	14·47	14·47	14·47	14·47	14·73	14·93
28												
29	15·40	15·09	14·47	13·94	13·94	13·94	14·20	14·47	14·99	14·99	15·04	14·99
30	14·09	14·47	14·73	13·94	14·47	14·99	14·99	14·47	14·47	14·57	14·52	14·83
31	14·47	14·99	14·78	13·99	14·25	14·47	14·47	14·47	14·99	14·99	14·99	14·93

SEPTEMBER, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	14·88	14·47	13·57	13·99	13·94	13·42	14·47	15·51	14·99	14·99	14·73	14·67
2	14·99	14·47	13·94	13·88	13·99	13·94	13·94	13·94	14·47	14·47	14·88	14·99
3	13·73	14·20	13·88	13·94	14·40	13·94	13·99	14·24	14·47	14·78	14·73	14·47
4												
5	14·88	15·40	14·99	13·94	14·04	13·94	13·94	14·78	14·99	14·99	14·73	14·93
6	14·99	15·25	14·47	14·09	14·47	14·20	14·47	14·47	14·99	14·47	14·93	14·99
7	15·51	15·30	14·47	14·47	14·52	14·47	14·47	14·47	14·88	14·73	14·99	14·99
8	15·82	15·14	13·94	13·94	13·94	13·94	13·94	14·47	14·47	14·47	14·47	14·73
9	15·45	16·04	14·99	14·47	14·14	14·47	14·47	14·47	14·47	14·47	15·51	16·35
10	15·51	15·25	13·68	13·42	13·52	13·42	13·94	13·94	13·94	14·20	14·47	14·47
11												
12	15·35	14·99	13·94	13·94	13·94	13·94	13·94	13·99	13·94	14·47	14·47	11·88
13	13·99	14·73	16·76	15·97	16·82	15·51	16·04	15·51	14·99	13·99	14·52	14·93
14	15·35	14·99	14·57	14·47	14·47	13·94	13·94	14·47	14·99	14·99	14·99	14·99
15	14·99	14·99	14·47	14·40	14·47	14·47	14·47	14·47	14·99	14·99	15·04	14·99
16	13·94	14·35	13·94	13·94	13·99	14·47	13·94	14·47	14·99	15·40	15·04	14·99
17	16·04	15·25	15·19	14·99	15·09	15·51	15·51	15·77	15·51	15·51	15·51	15·40
18												
19	14·78	14·99	14·47	14·99	15·09	14·99	14·99	14·99	14·99	14·99	14·99	14·67
20	15·51	15·19	14·73	14·73	14·99	14·99	14·99	15·25	14·99	14·99	15·45	15·45
21	16·56	15·61	14·99	15·09	14·99	14·99	14·99	14·99	14·99	14·99	14·99	14·93
22	17·08	16·56	15·97	16·04	15·40	14·99	14·99	14·99	14·99	14·99	14·99	14·93
23	17·13	16·04	16·24	16·14	16·04	16·56	15·51	14·99	15·51	15·25	15·04	14·99
24	16·04	22·31	22·31	19·58	15·56	21·15	20·74	19·43	19·96	20·16	17·86	18·13
25												
26	15·61	15·61	16·04	17·08	16·56	16·82	16·04	16·56	16·04	16·04	15·61	14·47
27	21·53	21·27	19·70	17·75	17·60	16·56	16·56	16·04	16·04	16·04	16·45	16·40
28	16·04	15·92	15·51	15·56	15·51	15·51	15·51	16·40	16·04	16·04	15·51	16·04
29	15·61	15·25	14·62	14·88	14·99	14·99	16·04	16·56	18·13	16·56	17·34	17·08
30	15·40	15·40	14·99	15·30	15·40	15·19	15·25	15·51	15·51	15·51	15·51	15·51

AUGUST, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	14·47	14·99	14·99	15·51	15·25	14·99	14·20	13·42	13·42	13·26	13·10	12·95
2	14·99	14·99	16·04	16·56	15·97	14·52	13·68	12·37	12·63	13·42	13·57	13·36
3	15·04	15·09	15·82	16·56	16·30	15·40	14·20	12·90	12·37	11·33	10·81	11·79
4	14·47	14·47	16·04	17·08	17·60	17·05	16·04	14·99	13·73	14·30	13·42	12·90
5	16·04	16·09	16·56	16·92	16·56	15·40	14·78	13·21	11·85	12·26	12·57	13·21
6	15·51	15·51	16·56	16·97	16·04	14·40	12·78	11·48	11·64	11·95	12·90	13·52
7												
8	14·99	15·51	16·09	16·87	16·61	15·66	14·40	13·42	12·37	13·31	13·94	14·99
9	14·99	15·82	16·03	17·48	17·08	15·51	13·94	12·90	12·37	12·37	12·11	12·00
10	14·57	14·99	16·30	16·61	16·09	14·14	12·90	11·90	12·37	12·37	12·63	13·47
11	14·73	14·99	16·04	17·08	17·08	16·04	14·99	14·73	14·47	13·94	14·47	14·99
12	15·04	15·61	16·76	17·03	16·56	16·71	14·47	13·83	13·42	12·90	13·42	14·99
13	14·47	14·47	16·04	16·76	16·04	14·73	13·42	12·90	11·85	11·59	11·59	12·37
14	14·93	15·19	16·97	17·60	17·08	16·04	16·04	14·73	12·90	12·26	12·78	13·31
15												
16	15·30	15·51	16·97	18·18	17·86	16·09	14·99	13·68	12·63	12·78	13·42	14·47
17	14·99	15·51	16·56	17·53	16·82	15·97	14·35	12·90	11·85	12·37	13·00	13·94
18	14·99	15·40	17·39	18·01	17·65	17·08	14·99	13·16	12·37	12·00	12·37	13·47
19	14·99	15·51	17·08	18·05	17·96	16·66	15·66	13·83	12·90	12·47	13·42	14·40
20	14·99	15·92	17·08	17·18	16·56	14·73	13·42	12·73	11·85	11·38	12·11	13·94
21												
22	15·40	16·04	17·13	18·65	18·31	16·04	13·47	13·00	13·42	14·88	15·04	16·24
23	15·40	15·71	17·60	18·13	17·60	15·51	13·42	11·33	11·85	12·31	13·00	14·99
24	15·40	15·92	17·08	17·60	16·56	14·47	11·90	11·07	11·33	12·78	13·99	15·51
25	14·99	15·61	17·60	17·60	15·51	13·42	12·37	12·63	12·11	12·37	13·36	13·94
26	14·83	15·19	16·82	17·60	17·08	15·97	14·04	12·11	11·33	12·00	12·90	14·47
27	14·88	15·40	16·56	17·70	16·45	12·90	10·81	9·50	9·24	10·28	11·85	13·83
28												
29	14·99	15·09	16·50	18·54	19·19	18·13	15·92	14·47	13·42	11·85	11·79	12·83
30	14·47	14·99	16·04	17·18	17·08	15·61	13·42	12·37	11·33	10·81	11·69	12·90
31	14·88	14·99	16·24	17·53	17·34	16·30	14·52	12·63	11·85	12·11	12·90	14·40

SEPTEMBER, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	14·52	14·78	16·07	16·56	16·04	13·94	12·37	11·33	10·81	11·85	13·16	14·35
2	15·04	14·99	16·82	17·60	16·97	15·51	13·21	10·86	12·11	9·76	10·81	12·37
3	14·73	14·99	16·30	17·03	17·08	16·04	13·62	11·07	11·07	11·74	12·90	13·42
4												
5	14·99	15·40	16·80	17·60	17·28	15·66	13·73	11·59	10·81	10·81	12·37	13·94
6	14·99	15·40	17·08	18·65	18·65	16·56	14·47	13·90	11·85	12·37	13·88	14·99
7	14·99	15·40	16·76	17·18	16·30	14·99	12·90	12·11	12·37	12·37	13·52	15·19
8	14·83	14·99	16·50	17·60	16·56	14·20	12·90	11·85	11·33	11·90	13·00	14·99
9	16·14	16·66	18·39	18·96	17·86	14·83	12·68	11·27	10·02	10·91	12·37	14·47
10	14·57	14·99	16·04	16·61	16·45	14·47	11·33	9·50	9·76	10·28	11·85	13·62
11												
12	14·88	14·99	16·61	18·05	17·60	16·04	15·26	11·59	10·02	10·28	11·85	13·47
13	14·99	15·61	17·60	18·54	17·90	16·04	14·47	13·52	12·63	12·78	13·42	14·47
14	14·99	14·99	16·30	17·39	17·34	16·71	14·78	12·63	11·85	11·90	12·90	14·09
15	14·99	15·09	16·14	17·60	17·08	15·51	13·94	13·42	11·33	10·81	11·85	13·26
16	14·52	14·67	15·51	17·86	18·13	17·34	17·02	15·04	13·42	12·37	14·47	15·45
17	15·45	15·61	16·87	18·06	17·91	16·06	15·25	13·94	12·90	12·37	12·90	13·94
18												
19	14·57	14·99	16·04	17·86	18·49	17·34	15·82	12·90	11·85	12·05	13·42	14·73
20	15·45	15·45	16·56	18·44	20·63	18·65	16·82	14·47	13·42	13·52	14·93	16·04
21	14·93	14·99	16·09	18·13	18·33	17·53	17·02	15·25	13·42	13·88	14·99	16·71
22	14·99	14·99	16·66	18·13	17·50	15·30	13·94	12·90	12·37	13·42	14·73	16·30
23	14·99	15·82	16·04	17·08	15·87	15·45	14·47	13·94	13·42	13·94	14·99	15·61
24	18·13	19·01	19·06	19·06	17·53	16·04	14·47	13·42	12·90	13·16	14·47	15·51
25												
26	11·74	12·57	15·51	18·97	18·65	17·48	16·04	14·47	12·90	12·90	14·99	16·30
27	15·61	16·04	17·60	18·65	18·65	18·13	16·56	14·47	12·90	12·83	13·94	16·40
28	15·25	15·51	17·23	18·65	18·65	17·08	15·56	13·68	12·37	11·85	12·83	14·99
29	16·56	16·04	16·56	18·33	18·13	17·60	16·56	14·73	13·42	13·42	13·94	14·99
30	15·51	15·61	16·56	17·43	17·65	17·08	16·14	14·14	13·42	13·54	14·47	14·99

OCTOBER, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	15·51	14·99	14·47	14·47	14·57	14·47	14·73	14·99	14·99	14·73	15·51	14·57
2												
3	16·04	14·99	14·47	14·78	14·78	14·47	14·47	14·73	14·99	14·99	14·99	14·99
4	15·51	14·47	14·14	14·47	14·47	14·47	14·47	14·99	14·99	14·88	14·73	14·47
5	15·25	14·47	13·94	14·47	14·73	14·47	14·99	15·51	16·04	16·04	16·04	16·04
6	15·51	14·57	14·47	14·73	14·99	14·99	14·99	15·51	15·25	15·45	15·25	14·99
7	15·77	14·57	14·47	14·99	14·99	14·99	14·99	14·99	14·99	14·99	15·19	15·09
8	15·14	14·20	13·99	14·52	14·78	14·99	14·99	15·51	15·51	16·04	16·24	16·24
9												
10	15·61	14·93	14·35	14·47	14·57	14·99	15·51	15·51	15·51	16·04	15·92	15·61
11	15·92	15·51	15·04	15·25	15·09	14·99	15·25	15·51	16·04	15·92	15·82	15·40
12	15·35	14·78	14·47	14·99	14·99	14·99	14·99	15·51	15·25	15·19	15·51	15·09
13	15·25	14·99	16·56	16·56	17·48	16·56	17·08	16·14	17·60	17·34	17·08	16·24
14	15·40	15·30	15·51	16·87	15·51	15·51	15·51	16·04	16·04	15·51	15·51	15·40
15	16·76	15·25	14·99	15·51	15·45	14·99	15·51	14·99	15·25	14·99	14·99	14·47
16												
17	15·25	14·99	15·51	15·51	16·04	14·99	14·99	14·99	15·51	14·93	14·99	14·99
18	14·93	14·35	14·47	15·04	14·99	14·99	14·99	14·99	14·99	14·99	15·40	14·99
19	15·35	15·61	14·99	15·51	14·99	14·99	14·99	14·99	14·99	14·99	15·19	14·99
20	14·88	14·04	13·94	14·40	14·47	14·47	14·47	14·47	14·99	14·99	14·99	14·14
21	15·51	14·62	14·04	14·47	14·47	14·47	14·47	14·47	14·99	14·88	15·67	14·47
22	15·45	14·47	14·47	14·52	14·47	14·47	14·47	14·99	14·99	15·51	16·04	15·09
23	16·04	16·04	19·17	15·45	17·60	13·13	19·70	21·27	17·08	18·06	18·13	17·08
24												
25	16·04	15·51	17·48	18·65	17·08	17·60	17·08	17·60	17·08	17·60	16·04	16·04
26	14·47	14·99	15·51	16·04	16·04	15·77	16·04	16·04	16·04	16·04	16·04	15·51
27	16·04	15·51	15·40	15·77	15·51	15·51	15·51	16·04	15·77	16·04	16·04	16·82
28	13·99	14·47	14·99	15·51	15·51	15·51	15·51	15·51	16·04	15·97	16·40	15·45
29	14·99	13·42	13·94	14·99	15·51	14·99	16·04	16·04	16·04	16·04	16·04	15·54
30												
31	15·51	14·93	15·04	15·51	16·04	14·99	15·51	16·04	16·04	16·04	15·17	16·04

NOVEMBER, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	15·82	14·99	14·99	16·14	16·04	16·04	16·04	16·04	16·04	16·04	15·97	15·51
2	14·99	14·40	14·57	15·51	15·50	15·51	15·51	15·51	15·51	15·50	15·25	14·99
3	16·40	14·52	14·99	15·25	14·99	15·51	15·51	15·51	15·51	15·51	15·77	14·99
4	14·99	14·14	14·67	14·99	14·99	14·99	14·99	15·25	14·99	14·99	15·39	14·99
5	14·78	13·99	14·14	14·73	14·47	14·73	14·99	14·99	14·99	14·99	14·99	14·99
6												
7	15·14	14·47	14·52	14·99	14·99	14·99	15·77	15·77	15·51	15·25	15·51	15·45
8	15·51	16·04	16·04	16·56	16·54	16·04	16·04	16·04	16·56	16·56	16·56	16·04
9	16·30	15·97	16·04	16·56	16·04	16·04	16·04	16·04	16·04	16·04	16·04	16·04
10	16·87	15·77	16·04	16·56	16·61	17·48	17·08	16·56	17·08	16·56	17·05	16·56
11	16·04	15·82	15·82	13·52	16·09	16·04	16·04	16·04	16·55	16·04	15·76	16·56
12	16·09	15·61	15·97	16·24	16·04	16·04	16·04	16·04	16·04	16·59	16·53	16·30
13												
14	16·56	15·61	15·92	16·56	16·09	16·04	16·04	16·56	16·04	16·56	16·56	16·04
15	16·04	15·51	16·04	16·09	16·19	16·04	16·04	16·04	16·04	16·04	16·04	16·04
16	16·24	15·97	16·19	17·02	16·04	16·02	16·04	16·82	17·60	17·08	17·60	17·34
17	16·04	15·61	16·04	16·19	16·09	16·04	16·04	16·04	16·04	16·04	16·04	16·04
18	16·04	15·25	15·71	16·30	16·04	16·04	16·04	16·04	16·04	16·45	16·56	16·56
19	15·71	15·19	15·51	15·97	16·04	16·04	16·04	16·04	16·04	17·60	17·63	15·97
20												
21	15·92	15·40	16·04	16·04	16·04	16·04	16·04	16·04	16·04	16·04	16·04	16·04
22	15·92	15·51	15·51	16·04	16·04	15·51	16·56	17·60	17·08	17·86	19·70	19·21
23	13·44	13·06	17·60	17·18	17·08	16·82	17·08	17·08	17·34	17·08	17·08	17·08
24	17·08	16·76	16·40	16·76	16·76	16·56	16·56	16·82	17·08	17·08	17·08	16·04
25	17·08	15·77	15·77	16·30	15·43	16·04	17·08	18·65	19·96	20·46	20·22	19·19
26	16·30	16·45	18·70	16·56	16·56	16·56	16·30	16·30	16·56	16·04	16·56	17·05
27												
28	16·56	15·71	16·04	16·50	16·14	16·04	16·04	16·04	16·04	16·04	16·04	16·30
29	16·56	16·50	16·09	16·56	16·50	16·04	16·30	16·30	16·56	16·56	16·53	16·45
30	16·04	15·51	15·82	16·19	16·30	16·04	16·04	16·04	16·04	16·04	15·87	15·82

OCTOBER, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	15'51	15'51	16'04	17'08	17'91	17'08	16'09	14'99	13'94	13'94	14'67	15'51
2												
3	14.99	14.99	15.77	16.71	17.02	16.04	15.04	13.26	12.63	14.14	15.40	15.71
4	14.47	14.47	15.51	16.82	16.87	16.04	14.47	12.37	12.11	13.31	14.47	15.25
5	16.04	15.51	16.30	17.91	18.65	16.82	14.67	13.42	12.90	13.31	14.47	14.99
6	14.99	15.09	16.04	17.70	19.11	19.17	16.04	13.42	12.90	13.94	15.40	16.14
7	15.09	15.40	16.04	17.65	17.86	16.86	14.99	12.90	13.42	14.47	14.99	15.09
8	16.30	16.04	16.24	17.80	18.18	17.86	16.04	14.47	13.62	13.42	14.47	15.09
9												
10	15.51	15.51	16.82	18.13	19.32	18.65	17.08	15.25	13.42	13.68	14.47	15.61
11	15.40	15.51	16.09	18.13	17.91	17.34	16.04	14.47	13.68	13.42	13.94	14.73
12	14.99	14.99	15.77	17.28	16.87	17.02	16.40	15.25	14.47	14.47	15.51	15.61
13	16.04	16.04	16.35	16.66	17.08	17.08	16.30	14.99	14.20	14.20	14.47	14.99
14	15.09	14.99	15.51	16.82	17.34	17.60	16.97	15.09	14.47	15.09	16.45	17.02
15	14.09	14.25	15.40	16.35	16.82	16.56	14.99	14.47	13.94	13.99	14.88	15.14
16												
17	14.99	14.99	15.66	16.09	16.24	15.51	15.51	14.93	14.99	16.56	16.30	16.14
18	15.04	15.51	16.04	17.08	17.80	17.08	14.99	13.94	13.94	14.47	15.40	15.51
19	14.99	14.99	15.87	17.48	18.80	17.91	16.56	15.51	15.25	15.51	15.77	15.61
20	13.99	13.94	14.35	15.40	15.87	14.99	14.47	14.47	14.99	15.40	15.92	15.66
21	14.47	14.47	14.93	16.04	16.61	15.56	14.47	13.99	14.47	14.99	16.04	16.09
22	14.47	13.94	13.94	15.51	15.45	15.00	12.63	11.85	13.94	16.56	18.18	16.92
23	16.50	17.08	18.13	18.23	18.01	16.56	14.99	12.90	13.42	14.99	15.45	16.04
24												
25	16.04	16.04	17.13	18.54	18.70	17.60	16.30	14.99	14.47	14.47	14.47	13.94
26	16.04	15.51	16.04	17.53	19.17	18.49	16.56	14.73	14.47	15.15	16.04	16.30
27	15.09	15.92	16.04	16.92	17.60	17.60	16.56	14.99	14.99	15.87	15.51	14.99
28	15.51	14.99	16.56	17.23	17.86	17.48	16.56	15.56	16.04	15.04	15.51	15.51
29	15.51	15.51	16.04	16.61	17.08	17.60	16.30	14.73	14.47	15.45	13.99	16.04
30												
31	16.04	15.51	16.04	16.56	17.08	16.76	16.30	15.77	16.04	16.04	16.04	15.77

NOVEMBER, 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	15'97	16'04	16'04	17'18	17'39	17'08	16'04	14'99	14'99	15'51	15'51	15'51
2	14.99	14.52	15.25	16.04	16.04	14.99	15.25	14.99	15.25	15.51	16.04	17.02
3	14.99	14.99	14.99	16.04	16.56	14.99	13.94	13.42	13.42	14.47	15.51	15.56
4	14.93	14.47	14.99	15.61	15.61	15.45	14.25	13.57	13.94	14.47	14.47	14.52
5	14.47	14.35	14.52	15.71	16.14	16.56	14.73	—	14.47	14.78	14.73	14.47
6												
7	14.99	14.99	14.99	15.45	16.87	17.08	16.97	16.56	16.30	15.17	16.04	15.77
8	15.56	15.45	14.99	14.99	15.77	16.04	16.04	14.47	14.99	16.56	16.82	16.82
9	16.14	16.04	15.56	15.82	17.08	17.34	16.76	15.77	16.04	16.82	17.34	17.34
10	16.04	15.51	14.99	16.40	16.56	16.04	14.99	14.47	14.73	15.97	16.56	16.56
11	16.14	15.61	15.61	16.14	17.08	17.34	17.39	17.08	17.08	17.60	17.60	16.40
12	16.14	16.04	14.99	14.99	16.04	16.30	16.04	15.51	15.51	16.04	16.56	16.35
13												
14	16.04	14.99	15.51	16.04	16.61	17.08	17.02	16.04	16.04	16.30	16.04	16.56
15	15.91	15.61	16.04	16.71	17.34	16.82	15.77	15.51	15.51	16.04	16.24	16.76
16	16.56	16.14	16.04	15.92	16.40	16.09	15.50	15.40	15.51	16.04	16.04	16.04
17	15.92	15.51	15.51	16.04	16.30	16.56	16.97	16.56	16.56	17.02	17.13	16.56
18	16.04	16.04	15.92	15.66	16.09	16.04	16.19	15.14	14.99	16.04	17.13	16.30
19	17.60	16.56	15.51	14.47	14.99	14.99	15.51	15 92	16.04	17.08	17.60	17.60
20												
21	15.61	15.51	15.76	16.04	16.19	16.92	17.08	17.02	16.82	17.08	16.56	16.45
22	17.60	16.56	14.47	12.78	10.81	12.90	15.77	16.04	17.60	19.06	18.13	18.13
23	17.08	16.56	16.50	16.04	16.24	16.14	16.50	16.04	16.30	17.34	17.60	17.60
24	16.14	15.51	14.99	15.40	14.47	16.04	15.97	16.97	18.59	17.60	18.13	17.53
25	19.17	17.08	17.60	16.04	14.99	15.51	16.04	16.35	16.82	17.39	16.56	16.14
26	16.24	15.51	15.45	14.99	16.04	16.82	16.82	16.56	16.04	16.56	17.08	17.08
27												
28	16.04	15.92	15.61	14.99	15.97	16.40	15.25	14.20	14.47	15.77	16.82	16.82
29	16.50	16.45	16.35	16.04	16.56	16.56	16.04	16.30	16.04	15.51	15.40	15.92
30	15.77	15.61	15.51	15.09	16.19	17.43	17.48	16.14	15.25	14.88	15.30	15.51

DECEMBER, 1847.

SMALL DECLINATION MAGNETOMETER (in arc).

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	15·87	15·19	14·99	15·51	15·56	15·51	14·47	14·47	15·40	15·51	14·99	15·51
2	14·99	14·73	15·35	15·61	15·25	15·51	15·51	16·04	16·82	17·60	17·08	16·99
3	15·40	15·19	15·40	16·04	16·45	16·30	16·04	16·56	16·56	16·45	16·40	16·40
4												
5	16·50	15·77	15·77	15·97	16·04	16·04	16·04	16·04	16·04	16·04	16·04	16·04
6	15·92	15·61	15·51	16·04	15·97	16·04	16·04	16·04	16·04	16·04	16·04	16·04
7	15·04	15·09	15·56	15·92	15·97	16·04	16·04	16·04	16·04	15·92	15·92	15·51
8	16·14	15·61	15·71	16·61	17·13	16·56	16·56	16·56	16·56	16·56	16·04	16·04
9	16·56	16·04	16·45	17·65	16·82	16·56	16·56	16·56	16·56	16·30	16·04	16·04
10	16·04	15·77	15·61	16·04	16·87	16·04	16·56	17·08	17·08	17·60	17·02	16·30
11												
12	16·56	16·09	16·19	16·30	16·61	16·04	16·30	16·30	16·04	16·04	16·04	16·04
13	15·97	16·09	16·04	16·35	16·24	16·45	16·04	16·04	16·04	15·97	15·56	15·51
14	16·04	16·04	15·77	16·14	16·45	16·04	16·04	16·04	16·30	16·04	16·04	15·87
15	15·56	15·97	16·04	16·04	16·45	16·04	16·04	16·04	15·97	15·92	15·71	15·51
16	15·40	15·56	15·97	16·09	15·97	16·04	16·04	16·04	16·04	15·72	16·04	15·51
17	15·40	14·99	15·66	16·04	16·66	16·65	19·70	21·27	22·31	20·22	19·17	19·70
18												
19	—	15·82	17·34	16·92	17·48	17·60	19·58	20·22	21·53	21·27	20·22	19·48
20	24·93	19·70	20·42	23·36	21·99	20·74	22·31	24·40	20·74	21·20	22·83	19·70
21	17·09	17·18	17·34	17·18	17·13	17·08	17·08	17·08	17·08	17·08	17·08	17·08
22	16·04	15·77	16·04	16·76	16·19	16·56	16·56	16·56	16·56	16·56	16·50	16·56
23	17·13	16·35	16·71	16·50	16·56	16·04	16·04	16·04	16·19	16·56	16·66	16·61
24	16·76	16·30	15·92	16·04	15·56	—	—	—	—	—	—	—
25												
26	16·14	15·77	15·40	15·71	15·56	15·51	15·61	15·92	15·92	16·04	16·04	16·04
27	16·66	15·92	15·30	16·04	15·97	16·04	16·04	16·04	16·04	16·04	16·04	15·51
28	15·66	14·99	14·99	15·66	15·82	15·97	15·97	15·97	16·04	16·04	16·24	16·14
29	16·45	15·71	15·30	15·97	16·04	16·04	16·04	16·56	16·04	16·56	16·30	16·04
30	16·35	15·40	15·56	15·87	15·97	16·04	16·04	16·04	16·30	16·30	16·56	16·40
31	16·40	15·40	15·61	16·04	15·97	15·97	16·04	16·04	16·04	16·19	16·04	16·04

SMALL DECLINATION MAGNETOMETER *(in arc)*.

DECEMBER, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	16·04	15·77	15·04	14·20	16·04	16·04	16·77	15·51	15·51	14·99	15·51	16·04
2	16·04	15·77	15·97	15·14	16·04	15·45	16·87	15·04	14·47	14·99	15·45	15·51
3	16·40	15·56	15·40	14·99	16·50	16·30	16·04	15·51	14·73	14·99	16·04	16·56
4												
5	15·77	15·87	15·61	15·09	15·56	16·56	17·08	16·40	16·56	16·97	16·97	16·24
6	16·09	16·14	16·09	15·82	15·56	16·04	16·04	16·82	16·82	16·56	16·30	16·04
7	15·40	15·04	15·09	15·09	15·61	16·50	17·02	17·18	17·60	17·60	18·01	17·18
8	15·51	15·56	15·56	14·40	14·47	14·99	16·04	15·51	14·99	14·57	15·45	15·82
9	15·92	15·77	15·51	15·14	15·51	16·30	16·61	16·14	16·04	16·04	16·04	16·04
10	16·04	15·71	15·45	15·30	15·56	16·56	16·82	17·08	17·08	17·34	16·82	16·56
11												
12	16·51	15·40	15·30	14·40	14·99	15·09	14·93	14·99	15·25	16·04	16·56	16·04
13	15·45	14·99	14·88	14·99	15·87	16·56	16·45	16·71	17·08	16·56	16·04	15·51
14	15·51	15·04	15·51	14·40	14·99	16·14	15·87	15·71	15·77	16·04	15·51	15·30
15	15·45	15·25	15·40	15·35	15·71	16·30	17·08	17·34	17·08	16·04	14·99	14·93
16	15·51	15·25	14·99	14·88	14·99	15·30	15·71	16·56	15·56	16·56	16·04	14·93
17	18·01	15·56	15·87	16·09	15·97	14·20	14·99	16·45	16·56	16·56	17·60	16·96
18												
19	18·13	17·39	11·64	13·16	15·40	17·70	20·74	20·37	18·65	21·79	24·08	24·93
20	19·70	17·60	17·34	15·35	13·88	12·11	10·54	9·76	10·81	12·90	14·47	15·51
21	16·72	16·56	16·61	16·61	16·56	17·02	16·04	16·09	16·04	15·25	15·25	16·61
22	16·56	16·40	15·66	15·19	15·56	16·04	15·97	15·51	14·99	16·04	17·60	18·13
23	16·82	16·19	16·14	15·30	14·83	15·19	15·35	14·20	14·99	16·56	17·08	17·53
24												
25												
26	15·92	15·82	15·97	14·93	15·45	16·40	16·30	16·35	15·51	15·77	16·24	16·56
27	15·40	15·30	15·77	15·56	15·97	16·04	15·45	14·47	14·14	14·47	14·99	15·51
28	15·97	15·56	15·77	15·97	17·02	18·18	17·91	16·35	15·61	15·67	16·04	15·71
29	16·04	16·14	15·87	16·30	17·18	18·13	17·02	15·71	15·51	17·08	17·08	16·66
30	16·53	16·50	16·82	15·97	17·08	17·91	17·96	16·56	16·04	16·24	16·56	16·24
31	15·97	15·87	16·56	16·61	16·92	17·48	16·04	14·47	13·94	14·99	15·61	16·24

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
JANUARY, 1847. 1	17·750	18·050	18·020	18·250	18·600	18·685	18·702	19·010	19·560	19·550	19·200	17·912
2												
3	17·690	17·410	17·630	17·975	18·150	18·250	18·415	18·590	19·125	19·150	18·950	18·235
4	17·815	17·750	17·780	17·985	18·300	18·285	18·217	18·315	19·005	19·100	18·550	17·700
5	17·400	17·660	17·950	18·155	18·352	18·332	18·370	18·630	18·960	19·190	18·950	18·360
6	17·810	17·547	17·720	17·915	18·175	18·340	18·417	18·520	18·860	19·150	18·810	18·250
7	18·065	18·090	17·845	18·000	18·475	18·585	18·800	18·935	19·255	19·040	18·850	18·460
8	18·150	18·055	18·010	18·225	18·450	18·475	18·860	19·260	19·700	20·450	20·360	18·660
9												
10	18·040	18·120	17·835	18·080	18·410	18·770	18·805	18·945	19·450	19·500	18·950	18·090
11	17·800	17·900	17·740	18·150	18·372	18·630	19·032	19·160	19·160	19·515	19·350	18·765
12	18·320	17·600	17·750	18·425	18·550	18·790	18·840	19·085	19·135	19·400	19·240	18·530
13	17·950	18·000	18·115	17·982	18·350	18·415	18·555	18·850	19·405	19·355	18·750	18·480
14	17·970	18·090	18·045	18·160	18·150	18·435	18·665	18·930	19·275	19·400	19·000	18·525
15	18·100	18·050	17·990	18·125	18·175	18·405	18·515	18·630	19·120	19·000	18·600	18·115
16												
17	17·940	17·950	17·860	18·025	18·000	18·250	18·550	18·975	19·150	19·150	18·740	18·000
18	17·550	17·850	18·000	18·275	18·350	18·350	18·545	18·735	19·510	19·455	18·850	18·080
19	17·710	17·800	18·020	18·225	18·185	18·525	18·695	19·050	19·710	19·790	19·260	18·100
20	17·495	17·650	17·650	18·025	18·205	18·127	18·450	18·630	19·150	19·120	18·725	18·737
21	17·500	17·560	17·680	17·550	17·910	18·345	18·265	18·360	19·070	19·180	18·880	18·240
22	17·725	17·610	17·765	18·100	18·130	18·490	18·460	18·650	19·200	19·150	18·600	18·800
23												
24	17·465	17·400	17·590	17·755	18·020	18·065	18·250	18·530	18·920	19·050	18·910	18·240
25	17·650	17·755	17·600	17·900	18·100	18·165	18·300	18·460	18·755	18·810	18·410	18·060
26	17·947	18·290	18·490	18·675	18·725	19·032	19·280	19·175	19·775	20·200	19·900	19·420
27	19·125	18·855	19·300	19·375	19·770	19·965	20·055	20·200	20·500	20·550	20·260	19·800
28	19·365	19·260	19·300	19·600	19·800	19·970	20·290	20·150	20·190	20·500	19·950	18·960
29	18·640	18·190	18·180	18·350	18·150	18·350	18·555	19·010	19·535	20·000	19·150	18·815
30												
31	18·530	18·500	19·130	18·650	18·650	18·325	18·675	18·875	19·230	19·205	18·775	18·385

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
JANUARY, 1847. 1	86°5	83°0	81°0	79°5	79°0	78°5	78°4	77°6	78°1	81°9	84°3	86°2
2												
3	86·0	82·8	80·6	79·8	79·5	78·9	78·2	77·6	77·6	81·8	84·3	85·8
4	84·8	82·0	80·5	79·7	79·5	79·0	78·5	78·0	78·0	81·0	83·9	86·0
5	84·0	82·0	80·8	79·6	78·5	79·2	78·6	77·7	77·9	81·0	83·3	83·3
6	83·5	81·0	80·0	79·0	78·9	78·4	77·9	77·2	77·8	79·9	81·8	84·0
7	82·5	80·6	79·9	79·0	78·0	77·4	77·2	76·2	76·7	80·3	83·8	84·2
8	83·2	81·0	80·1	79·4	78·0	77·8	77·2	76·3	76·4	79·5	82·4	83·0
9												
10	84·5	81·7	80·1	78·8	78·1	77·2	76·5	76·0	76·9	80·0	82·5	83·8
11	84·2	81·8	80·0	78·7	78·0	77·0	75·4	75·8	75·8	76·0	78·7	80·5
12	83·2	80·9	79·7	78·5	77·3	78·3	75·3	74·0	75·1	79·0	81·5	83·2
13	83·2	81·6	80·0	79·0	77·5	77·0	76·0	75·2	76·0	79·0	81·8	83·3
14	83·5	81·4	80·0	79·0	79·0	78·3	77·9	76·9	77·2	80·6	83·0	84·0
15	84·6	82·6	80·9	80·1	79·6	78·7	78·2	77·6	77·8	81·3	83·6	85·0
16												
17	84·1	82·5	81·0	80·0	79·2	79·0	78·2	77·4	78·0	81·6	84·0	85·8
18	85·3	83·0	81·4	80·0	79·5	78·7	78·5	77·9	78·0	81·5	84·0	86·3
19	86·2	83·9	81·6	81·0	80·4	79·4	78·8	78·0	78·5	81·9	84·8	86·3
20	86·1	84·0	82·0	80·5	79·9	79·5	79·0	78·0	78·6	81·8	84·3	85·5
21	85·4	83·2	81·8	80·0	79·5	79·0	78·5	78·0	78·3	81·5	84·0	84·9
22	84·7	82·5	81·2	80·0	79·3	79·0	78·3	77·9	78·4	81·8	84·3	86·0
23												
24	87·0	84·5	83·5	82·7	82·0	81·6	80·5	79·9	80·0	83·0	85·0	86·0
25	86·0	83·7	82·5	82·0	81·5	80·9	80·4	79·9	80·7	83·5	85·0	85·4
26	82·4	80·7	78·0	78·3	76·0	76·7	76·0	76·6	74·4	77·5	80·0	79·8
27	79·0	76·4	75·0	74·5	73·0	72·0	71·2	71·4	72·3	76·0	77·8	79·0
28	78·9	76·5	75·4	73·7	73·0	72·7	71·4	71·9	72·0	74·5	77·9	79·5
29	79·0	78·0	76·6	76·0	76·0	75·3	74·2	72·8	72·0	74·5	76·3	77·0
30												
31	75·8	73·8	72·2	71·0	70·0	69·4	69·5	69·6	70·3	74·0	76·8	78·0

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
FEBRUARY, 1847. 1	18·100	18·270	18·480	18·425	18·750	18·830	19·175	19·570	20·205	20·750	20·915	20·050
2	19·275	19·285	19·750	20·000	20·275	20·480	20·550	21·000	21·525	21·900	21·550	20·550
3	19·890	19·800	19·700	19·987	20·350	20·415	20·425	20·635	21·050	21·080	20·700	19·620
4	19·015	18·990	19·155	19·300	19·510	19·640	19·710	19·780	19·890	19·700	19·325	18·705
5	18·175	18·450	18·510	18·515	18·610	18·850	19·000	19·200	19·700	19·770	19·595	17·960
6												
7	18·210	18·125	17·875	17·350	17·800	18·230	18·370	18·620	18·710	19·000	18·840	18·500
8	18·270	17·985	18·190	18·255	18·150	18·895	18·980	18·740	19·130	19·420	19·150	18·630
9	18·240	18·150	18·150	18·175	18·500	18·337	18·550	18·755	19·230	19·250	18·750	18·400
10	18·000	17·960	18·010	17·950	17·900	18·215	18·265	18·425	18·900	18·850	18·750	18·100
11	17·490	17·345	17·550	17·600	17·700	17·790	18·050	18·070	18·310	18·550	18·450	17·865
12	17·400	17·485	17·450	17·750	17·722	17·887	17·970	18·150	18·450	18·650	18·250	18·110
13												
14	18·630	18·620	18·490	18·830	18·890	18·765	18·980	19·220	19·950	19·995	19·600	19·500
15	18·950	18·900	18·870	18·985	19·290	19·520	19·605	19·845	20·432	20·600	20·050	18·550
16	18·380	18·450	18·715	19·050	18·825	18·850	19·077	19·030	19·495	19·905	19·750	18·720
17	18·190	18·260	18·170	18·100	18·550	18·510	18·940	18·985	19·210	19·500	19·350	18·720
18	18·610	17·200	17·350	17·675	18·150	18·300	18·625	18·836	19·070	18·860	19·100	18·800
19	18·190	18·365	18·540	18·650	18·775	18·875	19·030	19·265	19·390	19·650	19·600	19·015
20												
21	18·700	18·775	18·720	18·750	18·970	19·000	19·060	19·290	19·500	19·700	19·200	18·170
22	16·945	16·260	15·755	17·000	17·300	17·330	17·670	17·735	17·900	17·400	17·850	17·500
23	17·200	16·880	17·210	17·100	17·480	17·805	18·120	18·400	18·465	19·010	19·400	18·810
24	17·220	16·845	17·040	17·550	18·625	18·030	18·750	18·675	18·855	18·800	18·550	17·910
25	17·440	17·870	18·420	17·800	18·005	18·280	18·590	18·765	18·820	18·950	18·350	17·620
26	17·350	17·730	18·075	18·150	18·550	18·360	18·610	18·670	18·980	19·150	18·950	18·260
27												
28	18·200	18·180	18·200	18·200	18·375	18·465	18·382	18·500	18·995	19·250	19·055	19·405

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
FEBRUARY, 1847. 1	79°0	77°6	76°5	74°5	73°0	71°9	69°7	68°0	67°9	70°0	72°3	73°5
2	73·0	70·4	68·7	64·0	67·0	65·3	64·3	62·6	61·7	66·0	69·5	71·5
3	72·9	71·3	70·9	69·0	68·1	68·2	67·6	67·0	68·0	72·0	76·0	79·4
4	78·5	75·6	74·2	73·8	73·3	73·2	73·0	73·0	74·0	78·5	82·0	82·5
5	83·0	80·6	79·3	78·4	77·8	77·2	77·0	76·8	77·0	80·5	82·0	83·0
6												
7	80·0	78·7	78·0	77·6	77·0	76·2	75·7	75·1	75·8	78·9	79·5	79·5
8	79·0	77·0	76·6	76·5	76·0	75·8	75·3	75·0	74·6	76·9	78·7	79·5
9	79·8	78·2	77·3	76·8	76·9	76·5	76·3	75·8	76·2	79·9	81·6	82·1
10	82·5	80·8	79·8	79·3	78·8	78·0	77·6	77·2	77·9	81·0	83·0	84·2
11	84·2	82·5	81·5	80·5	80·0	80·0	79·5	79·0	79·6	82·2	84·0	84·9
12	84·4	82·4	80·8	80·5	79·7	79·0	78·5	78·0	78·6	81·2	82·6	81·2
13												
14	79·0	77·0	75·9	75·9	76·0	75·3	74·7	74·0	74·3	77·1	79·2	79·5
15	79·5	77·3	76·5	75·2	75·2	74·5	73·5	72·2	72·2	76·5	80·0	80·0
16	79·7	77·9	77·0	76·8	76·5	75·6	75·2	75·2	75·1	79·8	81·2	82·2
17	82·2	80·0	78·8	78·7	78·0	77·3	77·0	76·6	77·0	80·8	83·3	84·5
18	85·0	82·9	81·2	80·0	78·9	77·0	77·2	76·2	77·6	79·9	80·4	81·0
19	80·7	78·2	77·0	76·7	76·0	75·5	75·3	74·9	75·2	78·5	79·8	80·0
20												
21	81·2	79·8	78·5	77·8	77·0	76·7	76·2	75·9	76·0	79·9	83·7	85·2
22	85·0	82·9	81·0	80·4	80·0	79·5	78·5	77·9	78·1	81·6	83·0	83·5
23	83·2	81·0	80·0	79·5	78·5	78·0	77·0	76·1	76·8	79·5	80·9	82·0
24	82·2	80·0	78·7	78·0	77·5	74·4	75·2	75·0	75·0	79·0	79·8	80·2
25	81·0	78·6	77·7	77·2	77·0	76·3	75·0	74·8	75·5	79·0	80·0	81·3
26	81·5	79·0	77·9	77·5	77·0	76·3	75·1	75·0	75·8	79·0	80·3	81·8
27												
28	81·0	80·0	79·0	78·7	78·0	78·0	77·5	76·9	77·0	81·0	82·8	83·3

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.		Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MARCH, 1847.	1	18·900	18·435	16·320	15·900	15·600	16·020	16·665	17·100	17·610	17·810	17·750	17·035
	2	16·882	17·250	17·200	17·330	17·350	17·502	17·702	17·925	18·160	18·100	18·150	17·700
	3	17·430	17·690	17·500	17·700	17·900	17·770	18·030	18 340	18·800	19·040	18·650	18·200
	4	17·610	17·600	17·500	17·150	17·125	17·115	17·737	17·630	18·225	18·450	18·250	17·570
	5	17·265	17·200	17·150	17·325	18·025	17·785	17·862	18·355	18·720	19·150	19·050	18·330
	6												
	7	16·850	17·360	17·355	17·650	17·875	18·200	18·195	18·480	18·900	19·150	18·210	17·625
	8	17·200	17·420	17·340	17·460	17·750	18·055	18·325	18·535	18·750	18·575	18·550	17·605
	9	17·080	16·700	17·280	17·632	17·625	18·077	18·080	18·190	18·550	19·140	19·105	18·520
	10	17·862	17·710	17·865	18·050	17·750	17·970	18·027	18·010	18·400	19·006	18·660	18·265
	11	17·775	17·945	17·915	18·000	18·125	18·255	18·575	18·700	18·860	19·400	19·150	18·590
	12	18·070	18·125	18·290	18·250	18·205	18·450	18·465	18·790	19·050	19·500	18·850	18·345
	13												
	14	17·940	17·550	17·235	17·250	17·410	17·840	17·860	17·910	18·550	19·150	19·350	18·540
	15	18·050	17·700	17·460	17·150	17·550	17·540	17·880	18·000	18·395	18·750	18·207	17·520
	16	17·150	17·070	17·150	17·402	17·595	17·635	17·660	17·975	18·500	18·687	18·800	18·020
	17	17·490	17·610	17·510	17·600	17·930	18·020	18·020	18·160	18·720	19·390	18·900	18·630
	18	17·650	17·595	17·750	17·475	17·800	17·990	18·150	18·115	18·500	18·910	18·475	17·350
	19	16·800	14·300	15·650	14·750	14·600	15·797	16·725	16·860	15·550	15·460	16·400	16·510
	20												
	21	16·790	16·510	16·485	16·460	16·580	16·860	16·785	16·900	17·135	18·175	18·180	17·817
	22	17·475	17·500	17·200	17·160	17 300	17·395	17·635	17·880	18·210	18·810	18·170	17·185
	23	16·750	16·900	16·830	16·830	17·120	17·255	17·820	17·420	17·530	17·550	17·240	17·030
	24	16·710	15·980	16·460	16·825	16·800	17·397	17·315	17·400	17·855	18·010	17·800	17·425
	25	17·065	16·850	16·820	16·925	17·325	17·392	17·530	17·700	18·075	18·350	17·900	17·110
	26	16·762	16·880	16·865	17·100	17·400	17·595	17·657	17·920	18·495	18·850	18·370	17·770
	27												
	28	17·570	17·410	17·550	17·775	17·975	18·107	18·132	18·285	18·730	19·150	18·750	17·910
	29	17·530	17·540	17·520	17·600	17·750	17·960	18·065	18·260	18·660	19·150	19·050	18·015
	30	17·230	17·230	17·375	17·600	17·655	17·817	17·895	18·160	18·535	18·950	18·660	18·090
	31	17·550	17·590	17·460	17·650	17·550	17·760	17·915	18·065	18·335	18·950	18· 710	18·135

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.		Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MARCH, 1847.	1	83°3	81°8	80°6	80°0	79°5	79°2	78°5	77°6	78°8	82°2	83°3	83°9
	2	83·9	82·5	81·2	80·8	80·0	79·5	78·8	77·6	79·0	82·4	83·9	84·4
	3	84·2	82·2	81·7	81·0	80.2	79·8	79·2	78·0	79·5	83·0	84·3	85·4
	4	85·7	83.2	82·3	81·6	80·9	80·5	80·0	78·9	79·0	83·0	84·8	85.5
	5	86·0	84·0	82·7	81·7	81·0	80·0	79·7	78·9	79·0	83·0	85·0	85·4
	6												
	7	84·2	82·0	81·0	80·9	80·5	79·5	79·2	78·0	79·0	82·0	83·5	83·8
	8	84·0	82·0	81·0	80·4	80·0	79·6	78·8	78·0.	79·0	82·0	83·5	84·0
	9	83·9	81·8	80·7	80·3	79·8	79·4	78·7	78·0	78·4	80·9	82·0	82·8
	10	82·1	80·0	79·3	79·5	79·0	78·7	78·3	78·0	78·0	80 0	81·6	82·3
	11	82·0	80·0	79·0	79·0	78·5	77 7	77·2	76·6	77·7	80·2	81·9	83·0
	12	82·7	80·6	79·9	79·9	79·6	78·6	78·4	77·3	78·3	81·8	83·1	84·6
	13												
	14	85·2	83·8	82·9	83·0	82·5	81·8	82·0	81·4	80·8	81·0	84·0	85·8
	15	86·5	86·3	84·9	83·8	82·5	82·4	80·8	80·2	81·2	85·5	88·0	88·2
	16	88·0	85·7	84·9	84·0	83·8	83·0	82·5	81·0	81·9	84·0	86·0	87·0
	17	86·7	85·2	84·6	84·0	83·6	83·2	83·0	82·6	82·0	84·1	86·0	86·0
	18	84·7	83.1	82·9	82·3	82·0	81·9	81·0	80·7	80·8	83·0	84·5	85·0
	19	84·8	83·0	82·0	82·0	81·4	81·2	80·4	80.3	81·0	83.5	85·0	85·2
	20												
	21	84·0	83·0	82·2	82·3	82·0	81·5	81·1	80·8	80·7	82·0	84·0	83·0
	22	83·4	83·0	82·6	82·2	81·6	81·1	80·6	79·5	81·2	84·0	85·5	86·8
	23	86·1	84·8	84·2	84·0	83·0	82·0	81·3	81·9	82·7	85·1	86·2	86·0
	24	86·3	84·5	84·0	83·5	82·8	82·0	82·0	80·8	80.6	84·1	86·7	86·7
	25	86·4	84·8	83·6	82·7	81·4	80·7	80·4	79·8	81·0	84·0	85·0	85·8
	26	85·9	84·4	83·6	82·8	82·2	81·7	80·9	80·0	80·9	84·0	85·0	86·0
	27												
	28	86·5	85·0	83·5	82·8	82·0	81·6	81·1	80·7	81·9	84·6	85·8	86·0
	29	86·2	84·8	83·8	83·0	82·5	82·0	81·5	80·6	81·9	84·7	85·1	85·6
	30	85·5	83·9	82·9	83·0	82·5	82·0	81·0	80·6	82·2	84·4	85 5	85·9
	31	85·9	84·6	83·8	83.3	82·8	82·0	81·8	81·0	82·7	84·5	86·0	86·6

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

APRIL, 1847.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	17·500	17·330	17·700	17·625	17·775	18·050	18·150	18·180	18·660	19·400	19·140	18·400
2	17·750	17·750	17·885	18·275	18·255	18·305	18·470	18·350	19·010	19·900	19·350	18·300
3												
4	17·100	16·930	17·440	17·712	17·650	17·857	17·860	18·050	18·085	18·550	18·375	17·575
5	17·120	16·850	17·220	17·200	17·672	17·500	17·747	17·810	18·420	18·950	18·565	17·990
6	17·150	17·085	17·300	17·300	17·500	17·660	17·610	17·880	18·650	18·900	18·505	17·800
7	16·900	17·420	17·360	17·125	17·725	17·765	17·215	16·440	15·930	15·700	14·850	14·770
8	15·215	15·430	15·555	15·850	16·225	16·457	16·825	16·860	17·200	17·600	17·150	16·837
9	16·600	16·360	16·510	16·600	17·110	17·015	17·225	17·440	17·900	18·300	17·750	17·290
10												
11	17·400	17·210	17·360	17·400	17·625	17·570	17·870	17·890	18·300	18·850	18·575	17·857
12	17·570	17·560	17·455	18·000	18·125	17·415	17·567	18·000	18·770	19·300	18·800	18·010
13	17·655	17·500	17·620	17·750	17·900	17·780	18·070	18·025	18·450	18·750	18·300	17·755
14	17·560	17·430	17·210	17·175	17·300	17·295	17·620	17·620	17·765	18·200	18·000	17·510
15	17·110	17·060	16·915	17·200	17·200	17·165	17·425	17·575	18·160	18·650	17·850	17·157
16	17·000	17·160	16·950	17·600	17·200	16·960	17·275	17·550	17·960	18·150	17·550	17·447
17												
18	16·725	16·840	16·870	16·950	17·272	17·225	17·435	17·600	18·375	19·010	18·650	17·780
19	17·620	17·400	17·500	17·530	17·340	18·002	18·160	18·650	19·700	20·450	17·925	15·290
20	14·450	13·740	14·050	14·650	14·950	15·980	16·250	16·730	17·440	17·900	17·605	17·440
21	15·720	13·180	13·360	15·250	15·250	15·640	16·360	16·300	16·870	17·050	16·810	16·370
22	16·550	16·390	16·380	16·410	16·955	16·500	16·500	16·720	17·130	17·350	17·375	17·050
23	16·800	16·650	16·650	16·650	16·950	16·867	17·045	17·270	17·880	18·262	17·900	17·360
24												
25	17·155	16·960	16·902	17·100	17·030	17·090	17·735	17·540	17·960	18·200	18·995	17·770
26	17·590	17·300	17·290	17·400	17·550	17·680	17·712	18·130	18·440	18·400	18·250	17·660
27	17·610	17·590	17·385	17·525	17·400	17·507	17·800	17·950	18·170	18·250	18·000	17·382
28	17·325	16·760	17·165	17·450	17·775	17·640	18·155	18·240	18·370	19·100	17·850	17·010
29	17·340	17·250	17·190	17·250	17·450	18·010	18·140	17·470	17·640	18·250	17·350	16·590
30	15·610	16·050	16·400	16·700	16·975	17·215	17·380	17·695	17·960	17·900	17·650	17·170

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

APRIL, 1847.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	86°7	84°9	84°0	83°3	82°8	82°0	81°3	81°0	82°3	84°0	85°0	85°0
2	84·6	83·0	82·6	81·5	81·1	80·7	80·5	79·9	81·0	83·1	83·9	84·4
3												
4	85·2	83·2	82·6	82·5	81·7	81·3	80·3	79·3	80·9	84·2	86·0	87·2
5	87·0	85·2	84·0	84·0	83·0	82·0	82·1	81·4	82·9	85·0	86·0	87·0
6	87·0	85·7	84·8	84·5	84·0	83·4	82·8	82·0	83·5	86·0	87·7	88·0
7	88·2	86·7	85·3	84·8	84·0	83·3	83·0	83·0	83·9	84·5	86·5	87·5
8	87·2	86·0	85·0	84·5	83·8	82·8	82·8	82·0	84·0	86·0	86·0	86·5
9	86·8	85·6	85·0	84·2	84·0	83·0	82·3	81·6	83·5	85·9	87·0	87·0
10												
11	87·0	85·8	84·6	84·2	83·1	83·0	82·4	82·1	83·8	86·0	87·0	87·2
12	86·4	85·0	84·3	84·0	83·9	83·2	82·5	81·9	83·4	85·8	86·0	86·6
13	86·7	85·0	84·0	83·9	83·0	82·1	81·4	80·7	82·7	84·2	85·0	85·8
14	85·8	84·0	83·8	83·5	83·0	82·6	82·1	81·0	82·2	85·0	85·2	85·4
15	85·3	84·5	84·0	84·0	83·5	83·2	82·8	81·9	83·3	86·0	86·5	87·2
16	86·8	85·0	84·8	84·5	84·7	84·0	83·6	82·8	84·5	87·8	89.0	88·3
17												
18	89·7	88·0	87·0	86·5	86·0	85·2	84·5	83·8	84·0	85·5	87·9	88·0
19	86·3	85·0	84·0	84·0	83·0	82·9	82·7	82·2	82·8	82·8	84·0	85·6
20	85·9	84·9	84·5	83·7	83·8	83·2	83·0	82·8	83·6	85·0	86·0	87·0
21	87·2	85·9	85·0	84·8	84·2	83·8	83·2	83·2	84·9	86·9	88·0	87·6
22	87·0	86·0	85·4	85·3	85·0	84·8	84·3	84·0	84·4	86·0	87·0	87·7
23	87·8	86·3	85·8	85·2	84·7	84·0	83·6	83·2	84·9	86·8	87·5	87·8
24												
25	88·0	87·0	86·2	86·0	85·6	85·2	85·0	84·0	85·8	87·7	88·0	88·2
26	87·8	86·5	85·9	85·2	85·0	84·3	83·2	82·9	84·2	86·0	86·5	87·0
27	86·8	85·0	84·6	84·0	84·0	83·3	83·2	82·9	84·0	86·5	87·0	87·6
28	87·0	85·0	84·7	84·0	83·5	83·2	83·0	82·4	83·9	85·2	86·2	86·4
29	86·4	85·0	84·6	84·0	83·5	83·0	82·8	82·4	83·9	85·3	86·4	87·0
30	86·8	85·0	84·9	84·5	84·0	83·3	83·0	82·0	83·5	86·3	87·5	87·1

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MAY, 1847. 1												
2	17·130	17·210	17·285	17·385	17·225	17·510	17·605	17·850	18·210	18·500	18·300	17·650
3	16·995	16·600	16·790	17·025	17·450	17·565	17·525	17·795	18·140	18·350	18·250	17·765
4	17·400	17·390	17·515	17·645	17·595	17·655	17·760	18·000	18·460	19·150	18·950	18·220
5	17·640	17·410	17·550	17·700	17·875	17·915	18·040	18·190	18·650	19·200	18·900	18·270
6	17·760	17·330	17·460	17·550	17·600	17·715	17·952	18·170	18·410	19·160	18·650	18·150
7	17·450	17·590	17·615	17·400	17·575	18·015	18·300	18·175	18·335	19·050	15·400	13·550
8	13·490	13·640	14·440	15·450	15·777	16·125	16·352	16·775	17·450	17·950	17·750	17·320
9												
10	16·350	16·610	16·670	16·950	17·000	17·090	17·080	17·340	18·160	18·325	17·905	17·155
11	16·690	17·040	17·090	17·050	17·195	17·300	17·365	17·670	18·250	18·600	18·090	17·810
12	17·000	16·890	17·100	17·300	17·425	17·525	17·690	18·020	18·495	18·750	18·290	17·600
13	17·150	17·200	17·445	17·655	17·750	17·820	17·845	18·035	18·690	19·050	18·550	17·990
14	17·550	17·460	17·660	17·700	17·950	18·035	18·260	18·395	18·940	19·250	18·760	17·715
15	16·740	16 480	16·110	15·850	16·925	17·425	17·750	17·300	17·840	17·850	15·675	13·550
16	12·547	12·680	14·550	14·650	15·700	15·980	15·965	16·595	17·300	17·950	17·750	17·240
17												
18	16·500	16·430	16·760	17·250	17·050	17·167	17·162	17·160	17·290	18·100	17·600	17·380
19	16 820	16·610	16·820	17·050	17·160	17·087	17·090	17·290	17·530	18·000	17·550	17·270
20	16·950	16·850	16·870	17·150	17 300	17·250	17·215	17·330	17·670	17·700	17·450	17·140
21	16·890	16·830	16·900	16,900	17·350	17·100	17·200	17·225	17·640	17·945	17·750	17·375
22												
23	17·000	16·720	16·785	16·900	16·950	16·980	17·060	17·300	17·890	18·250	18·250	17·760
24	17·200	16·850	16·800	16·900	17·000	17·187	17·150	17·370	17·590	17·900	18 000	17·600
25	17·300	17·120	17·260	17·245	17·450	17·350	17·320	17·540	17·570	18·150	18·050	17·610
26	17·200	17·050	16·860	17·100	17·275	17·437	17·660	17·930	18·510	19·000	18·660	18·260
27	17·650	17·510	17·560	17·925	18·300	17·705	17·507	17·855	18·165	18·250	17·900	17·015
28	16·760	16·710	16·900	17·300	17·400	17·445	17·800	18·150	18·460	19·800	18·200	16·865
29												
30	17·300	17·326	17·480	17·500	17·700	17·560	17·637	18·050	18·590	19·060	18·915	18·155
31	17·675	17·300	17·375	17·250	17·250	17·700	17·720	17·820	18·480	18·500	18·250	18·270

THERMOMETER LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MAY, 1847. 1												
2	87°9	86°0	85°9	85°2	84°6	83°8	83°3	82°5	84°1	86°0	87°5	88°3
3	88·9	87·6	86·1	85·2	84·5	84·0	83·3	82·8	84·3	86·2	87·0	87·4
4	87·3	85·4	85·0	94·5	84·1	83·8	83·2	82·5	84·2	86·8	87·0	87·8
5	87·8	86·3	85·1	84·5	84·0	83·3	83·3	82·8	84·1	86·5	87·6	88·0
6	87·9	86·0	85·0	84·7	84·0	83·3	83·0	83·0	84·6	86·5	87·4	87·9
7	87·4	86·2	85·0	85·0	84·6	83·9	83·9	83·8	85·2	87·0	87·0	89·0
8	89·0	87·0	86·9	85·2	85·0	84·6	83·9	83·5	85·0	86·3	87·2	87·7
9												
10	89·0	87·9	86·7	86·3	85·5	85·2	85·0	84·7	86·0	87·9	88·9	89·9
11	89·6	87·4	86·8	86·3	86·0	85·3	85·0	84·5	86·0	88·0	88·7	89·0
12	89·8	87·2	86·5	85·8	85·3	84·5	84·0	83·4	85·1	86·9	87·8	88·0
13	88·3	86·7	85·9	85·1	84·8	84·0	83·5	83·4	85·0	86·2	87·0	87·3
14	87·0	85·7	85·0	84·8	84·6	84·0	84·0	83·8	84·8	86·9	87·7	88·0
15	87·6	85·2	85·3	85·0	84·7	84·2	84·1	83·9	85·6	87·0	87·9	88·6
16	88·6	87·2	86·0	85·5	85·0	84·7	84·2	84·0	85·9	87·5	88·0	88·6
17												
18	86·0	86·6	86·5	85·7	85·5	85·4	85·0	85·0	85·6	86·0	87·0	87·5
19	88·1	86·8	86·0	85·8	85·5	85·2	85·0	84·9	85 8	87·1	88·0	87·5
20	87·7	86·0	85·5	85·0	85·0	84·5	84·6	84·4	85·2	87·5	88·0	88·2
21	88·0	86·6	86·4	86·2	86·0	86·0	85·6	85·0	86·9	88·5	89·5	89·4
22												
23	90·6	89·0	87·9	87·5	87·0	87·0	86·7	86·0	87·2	89·0	90·0	90·6
24	90·6	89·0	88·0	88·0	87·8	87·0	86·8	86·0	87·2	89·0	89·8	90·3
25	89·3	88·6	88·0	87·5	87·0	86·4	86·4	85·5	86·0	87·5	88·0	88·5
26	88 0	87·0	87·0	86·2	86·0	85·4	85·0	84·4	85·6	86·2	86·5	87·9
27	87·8	86·7	86·2	85·7	85·0	84·4	83·6	83·2	84·2	87·0	87·9	88·4
28	88·0	87·0	86·0	85·0	84·5	84·0	83·3	82·9	84·1	85·0	86·2	86·0
29												
30	86·0	85·0	85·0	85·0	84·0	84·4	84·0	83·0	84·7	86·5	87·7	87·6
31	88·0	86·9	86·0	85·7	85·4	85·2	84·8	84·5	85·8	87·0	88·0	88·2

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
JUNE, 1847. 1	17·440	17·560	17·530	17·605	17·400	17·050	17·722	17·375	17·450	17·670	17·560	17·770
2	17·790	18·025	18·200	18·120	18·160	18·150	18·140	18·150	18·150	18·180	18·190	18·150
3	17·877	17·950	17·840	17·880	17·810	17·950	18·000	18 100	18·100	18·110	18·100	18·100
4	17·550	17·360	17·290	17·235	17·300	17·425	17·550	17·700	17·900	17·815	17·945	17·810
5												
6	18·060	17·820	17·900	18·000	17·990	16·050	18·195	18·250	18.100	18·150	18·200	18·350
7	17·900	17·495	17·490	17·450	17·550	17·750	17·750	17·725	17·825	18·042	17·995	18·162
8	18·502	18·260	18·200	18·105	17·955	17·950	17·975	18·050	18·050	16·080	18·170	17·930
9	17·600	17·550	17·630	17·590	17·610	17·700	17·717	17·800	17·825	17·900	18·100	18·040
10	17·775	17·270	17·310	17·260	16·920	17·100	16·960	17·215	17·400	17·420	17·550	17·662
11	17·740	17·270	17·400	17·330	17·130	17·550	17·400	17·450	17·450	17·440	17·670	17·715
12												
13	17·400	17·370	17·500	17·650	17·695	17·500	18·050	17·810	17·750	17·790	17·720	17·750
14	17·840	16·960	17·090	16·835	17·070	17·200	17·150	18·490	17·400	17·420	18·000	17·710
15	17·520	17·350	17·400	17·450	17·560	17·550	17·550	17·625	17·850	17·800	17·735	17·800
16	17·450	17·210	17·290	17·250	17·370	17·450	17·650	17·625	17·780	17·730	17·720	17·895
17	18·050	18·110	17·970	17·960	18·020	18·050	18·015	18·050	18·075	18·000	18·080	18·000
18	17·410	17·410	17·460	17·340	17·420	17·400	17·500	17·575	17·700	17.655	17·740	17·735
19												
20	17·400	17·250	17·320	17·380	17·490	17·350	17·575	17·600	17·700	17·640	17·650	17·650
21	17·630	17·610	17·505	17·505	17 505	17·725	17·850	17·900	18·225	18·200	18·210	18·067
22	17·725	17·630	17·280	17·640	17·790	17·725	17·850	17·875	17·850	17·945	18·055	18·045
23	18·300	18·210	18·230	18·150	18·240	18·250	18·200	18·200	18·250	18·370	18·400	18·510
24	18·970	18·790	18·620	18·605	18·590	18·500	18·500	18·650	18·625	18·540	18·682	18·570
25	18·435	18·200	18·150	18·160	18·180	18·200	18·200	18·200	18·200	18·230	18·200	18·260
26												
27	18·300	18·030	17·960	17·740	17·620	17·625	17·975	18·200	18·325	18·335	18·435	18·400
28	19·140	19·010	18·710	18·810	18·850	18·700	18·650	18·550	18·550	18·550	18·592	18·540
29	18·505	18·340	18·450	18·560	18·825	18·850	18·750	18·600	18·875	18·865	18·950	18·990
30	18·530	18·530	18·600	18·590	18·590	18·500	18·500	18·600	18·550	18·550	18·650	18·470

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
JUNE, 1847. 1	87°4	86°9	86°2	85°9	85°8	85°7	85°8	85°3	84°3	84°0	83°7	83°3
2	81·9	81·6	81·5	81·7	81·9	82·0	82·0	82·2	82·0	82·0	82 3	82·4
3	83·0	83·0	82·8	82·6	82.6	82·7	82·6	82·5	82·0	82·3	82·2	82·2
4	86·0	85·9	85·5	85·0	84·6	84·5	84·5	84·0	83·8	83·3	83·5	83·2
5												
6	86·0	86·0	85·5	85·0	84·9	84·8	84·7	84.5	84.2	84·0	84·0	84·0
7	86·4	86·1	86·0	85·5	85·0	84·9	84·8	84·5	84·5	83·9	83·7	83·0
8	81·8	82·2	82·1	82·3	82·8	82·7	82·7	82·7	83·0	83·0	82·3	82·3
9	87·0	86·4	85·8	85·0	84·9	84·8	84·5	84·4	84·0	84·0	83·8	83·4
10	85·2	85·1	84·9	84·8	84·5	84·5	84·2	84·0	84·0	84·0	83·8	83 2
11	86·8	86·5	85·8	85·2	85·0	85·0	85·0	84·9	84·8	84·6	84·4	84·0
12												
13	83·9	82·8	82·2	82·4	82·0	82·0	82·0	82·0	82·0	82·0	82·0	81·7
14	84·5	84·5	84·0	83·9	83·7	83·5	83·5	83·5	83·1	83·2	83·0	83·0
15	87·1	86·5	85·9	85·0	84·9	84·7	84·3	84.2	84·0	84·0	83·3	83·4
16	87·2	86·7	86·0	85·6	85·0	85·0	85·0	84.5	84·4	84·3	84 3	84·0
17	83·2	82·5	82·9	82·9	82·9	83·0	83·2	83·3	83·3	83·2	83·2	83·0
18	87·5	87·1	86·5	85·9	85·7	85·3	85·0	84·5	84·8	84·2	84·0	84·6
19												
20	88·0	87·9	87·0	86·5	85·2	86·0	85·8	85·3	85.3	85·1	85·1	85·0
21	87·5	86·0	85·7	85·9	85·4	85·0	85·0	84.5	84·0	84·0	83·5	84·0
22	86·1	85·8	85·0	84·8	84·5	84·6	84·0	83·8	83·5	83·0	82·0	81·9
23	82·9	82·4	82·3	82·0	82·0	82·2	82·3	82·0	82·0	81·4	81·2	81·0
24	81·5	81·6	81·7	82·0	82·0	81·8	81·7	81·4	81·6	81·6	80·9	81·0
25	84·6	81·0	83·8	83·4	83·2	83·0	83·2	83·2	83·0	83·0	83·0	82·6
26												
27	83·4	83·5	83·0	83·2	83·0	82·2	82·0	82·0	82·0	82·0	81·8	81·7
28	81·0	81·0	81·0	80·9	81·0	82·0	82·0	82·2	82·2	82·0	82·0	82·0
29	82·0	81·0	80·4	79·9	80·0	80·0	80·0	80·3	80·3	80·4	80·8	80 6
30	81·0	80·9	80·8	81·0	81·0	81·3	81·0	81·5	81·5	81·0	81·3	80·8

LARGE HORIZONTAL MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JUNE, 1847.	1	17·900	18·035	17·890	18·030	18·370	18·740	18·825	18·825	18·150	18·855	18·755	18·065
	2	18·130	18·145	18·400	18·550	18·750	19·150	19·450	19·350	19·300	18·760	18·320	17·960
	3	17·000	17·990	18·040	18·220	18·490	18·600	18·740	18·750	18·650	18·360	18·070	17·720
	4	17·972	18·055	16·260	18·570	18·790	19·100	18·960	18·750	18·610	18·395	18·070	17·972
	5												
	6	18·360	18·410	18·660	18·760	18·760	19·025	18·950	18·850	18·750	18·650	18·620	18·320
	7	18·256	18·320	18·520	18·830	18·795	19·000	19·055	18·800	18·500	18·150	18·487	18·440
	8	18·050	18·230	18·500	19·650	18·945	19·150	19·200	19·282	18·777	18·420	18·230	17·920
	9	18·120	18·210	18·410	18·920	18·810	19·100	18·900	18·800	18·700	18·610	18·420	18·200
	10	17·956	18·010	18·025	18·220	18·250	18·600	18·850	18·700	18·550	18·630	18·270	17·960
	11	17·770	17·730	17·980	18·370	19·095	19·100	19·850	19·850	19·800	19·400	18·990	18·770
	12												
	13	17·860	17·910	18·000	18·080	18·250	18·650	18·800	18·850	18·800	19·022	18·860	18·260
	14	17·720	17·600	17·690	17·800	17·880	18·050	17·945	18·100	18·050	18·070	17·970	17·870
	15	17·605	17·560	17·770	18·060	18·350	18·650	18·775	18,650	18·550	18·270	18·100	17·770
	16	17·800	17·870	17·950	18·310	18·530	18·950	19·500	19·700	19·200	18·640	18·670	18·365
	17	17·940	17·950	18·160	18·420	18·530	18·450	18·850	18·700	18·600	18·400	18·150	17·615
	18	17·672	17·590	17·900	18·240	18·600	18·950	19·195	19·150	19·000	18·760	18·320	17·750
	19												
	20	17·670	17·720	17·910	18·175	18·500	18·850	19·000	19·050	18·900	18·520	18·250	17·810
	21	18·530	18·435	18·670	18·580	18·940	19·400	19·700	19·650	19·390	19·100	18·650	18·170
	22	18·175	18·280	18·610	19·770	19·070	19·495	19·650	19·500	19·300	18·875	18·745	18·555
	23	18·427	18·540	18·690	18·810	19·180	19·450	19·650	19·750	20·000	19·930	19·540	19·170
	24	18·630	18·620	18·760	18·940	19·280	19·650	20·050	19·950	19·750	19·540	19·030	18·700
	25	18·350	18·450	18·590	19·810	19·060	19·350	19·650	19·650	19·650	19·260	19·050	18·610
	26												
	27	18·525	18·530	18·960	19·160	19·400	19·650	19·600	19·900	19·895	19·875	19·672	19·605
	28	18·650	18·690	19·090	19·090	19·370	19·750	19·750	19·650	19·520	19·470	19·160	18·595
	29	18·880	18·900	19·150	19·350	19·550	19·875	19·850	19·850	19·825	19·132	19·000	18·810
	30	18·530	18·520	18·750	18·960	19·245	19·600	19·400	18·960	18·950	18·830	18·590	18·305

THERMOMETER OF LARGE HORIZONTAL MAGNETOMETER.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JUNE, 1847.	1	83°0	82°5	82°2	82°0	82°0	82°2	82°2	82°0	82°0	82°0	82°0	82°0
	2	82·4	82·4	82·0	82·2	82·2	82·1	82·0	82·0	82·9	83·0	83·4	83·3
	3	82·4	82·2	82·4	82·9	83·9	85·0	86·0	86·0	86·0	86·4	86·5	86·4
	4	82·7	82·9	83·0	83·4	84·0	84·8	85·5	86·0	86·3	86·6	86·8	87·0
	5												
	6	83·8	83·8	83·7	83·3	84·3	85·0	86·0	86·5	87·0	87·2	87·4	86·5
	7	82·6	82·5	82·6	82·4	82·7	83·9	84·6	83·3	83·6	83·2	82·6	82·0
	8	81·5	81·0	81·1	81·0	81·0	82·0	82·7	83·9	85·0	86·0	86·5	87·0
	9	83·4	83·0	83·0	83·3	84·0	85·4	85·8	85·0	85 5	85·8	85·0	85·1
	10	83·0	82·9	82·6	82·8	83·0	84·0	84·7	84·7	84·9	86·0	86·1	86·2
	11	82·5	82·0	81·7	80·8	80·3	80·2	80·0	80·5	81·1	80·7	80·0	80·0
	12												
	13	81·6	81·5	81·5	81·8	82·3	82·3	83·0	83·1	84·0	84·0	84·6	84·9
	14	83·0	82·9	82·6	83·0	84·0	85·0	85·5	86·5	87·0	87·2	87·2	87·2
	15	83·6	83·4	83·3	83·3	83·4	84·5	85·5	86·2	86·7	86·8	86·6	87·0
	16	83·9	83·4	83·0	83·6	83·9	83·0	83·1	83·0	82·8	82·6	82·4	83·0
	17	83·3	83·1	83·0	83·3	84·0	85·2	85·9	86·2	86·8	87·2	87·1	87·3
	18	84·0	84·0	83·8	84·0	84·0	65·3	86·0	87·0	87·3	87·5	87·9	88·0
	19												
	20	85·0	84·8	84·6	84·8	85·6	86·0	87·0	88·0	88·0	88·0	88·2	88·0
	21	84·0	84·0	83·8	83·9	84·8	85·0	85·8	86·0	86·0	86·4	86·6	86·6
	22	82·0	81·9	81·6	81·0	81·2	82·2	83·0	84·0	83·0	83·5	82·8	82·8
	23	81·0	80·6	80·4	80·8	81·2	81·7	82·0	81·7	81·1	81·8	81·2	81·3
	24	81·0	81·2	81·0	81·0	81·7	81·2	81·5	82·7	83·0	83·3	84·3	84·6
	25	82·5	82 4	82·3	82·8	82·9	83·5	84·0	84·7	83·5	84·8	84·0	84·2
	26												
	27	81·5	81·4	81·0	81·5	82·0	83·1	82·2	81·7	81·0	80·8	80·9	80·9
	28	82·0	81·9	81·8	81·4	81·8	82·5	83·7	84·0	83·7	83·8	83·4	62·8
	29	80·5	80·0	79·8	79·5	79·0	79·5	80·0	8·00	80·5	80·8	80·9	80·8
	30	80·8	80·6	80·4	80·8	80·8	81·5	82·9	83·5	83·0	83·9	83·9	82·0

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

JULY, 1847.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	18·120	18·100	18·000	17·940	17·840	18·175	18·350	18·300	18·350	18·400	18·380	18·405
2	18·800	18·690	18·590	18·580	18·600	18·750	18·800	18·850	18·850	18·860	18·840	18·810
3												
4	18·520	18·360	18·290	18·290	18·330	18·350	18·450	18·500	18·500	18·490	18·450	18·630
5	18·250	18 110	18·130	18·140	18·110	18·150	18·250	18·400	18·600	18·480	18·405	18·410
6	18·240	18·130	18·200	18·135	18·180	18·150	18·275	18·425	18·550	18·450	18·675	18·630
7	18·360	18·340	18 040	18·020	17·850	17·400	17·800	18·095	17·825	18·150	18·060	18·200
8	18·170	17·890	17·680	17·950	18·030	18·000	18·067	18·200	18·150	18 250	18·230	18·160
9	18·600	18·400	18·240	18·250	18·210	18·100	18·050	17·900	18·000	17·772	17,700	17·800
10												
11	17·090	16·940	17·000	17·110	17·340	17·150	17·295	17·250	17·400	17·480	17·585	17·620
12	17·320	17·300	17·360	17·375	17·560	17·450	17·425	17·500	17·550	17·580	17·570	17·515
13	17·960	17·780	17·755	17·730	17·750	17·950	17·950	17·900	17·950	17·800	17·880	17·905
14	17·620	17·690	17·600	17·540	17·650	17·700	17·800	17·800	17·700	17·832	17·890	17·955
15	17·745	17·580	17·530	17·420	17·450	17·475	17·750	17·630	17·650	17·685	17·700	17·825
16	18·160	17·920	17·810	17·900	17·910	18·000	18·050	18·050	18·200	18·160	18·500	18·350
17												
18	17·710	17·660	17·720	17·740	17·670	17·710	17·800	17·800	17·910	17·930	18·055	18·215
19	18·560	18·370	18·210	18·070	18·105	18·150	18·150	18·210	18·195	18·180	18·130	18·260
20	17·330	17·310	17·580	17·750	17·805	17·900	17·900	17·950	17·945	18·000	18·050	18·100
21	18·100	18·070	18·020	17·905	17·945	18·000	18·050	18·050	18·150	18·200	18·200	18·300
22	17·735	17·630	17·680	17·785	17·960	18·050	18·050	18·250	18·400	18·405	18·427	18·500
23	17·720	17·560	17·650	17·720	17·660	17·800	17·935	18·030	18·000	18·220	18·042	17·960
24												
25	17·410	17·470	17·700	17·640	17·650	17·850	17·935	18·400	18·185	18·110	18·282	18·235
26	18·860	18·500	18·200	18·150	18·160	18·562	18·455	18·450	18·400	18·390	18·270	18·465
27	18·190	17·950	17·950	18·220	18·120	18·200	18·250	18·350	18·350	18·370	18·445	18·500
28	18·500	18·250	18·250	18·300	18·400	18·400	18·450	18·500	18·350	18·350	18·570	18·465
29	19·000	18·650	18·610	18·640	18·675	18·600	18·600	18·600	18·700	18·747	18·775	18·730
30	18·750	18·500	18·470	18·410	18·280	18·110	18·200	18·350	18·400	18·340	18·710	18·770

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

JULY, 1847.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	83°8	83°0	81°8	81°9	81°1	81°0	80°5	81°0	80°7	80°8	81°0	81°0
2	80·4	80·8	80·6	80·4	80·4	80·5	80·0	80·0	80·0	80·1	80·0	79·8
3												
4	83·5	83·0	83·0	82·7	82·4	82·3	82·2	82·0	82·0	82·0	82·0	81·0
5	84·8	84·4	83·8	83·4	83·2	83·0	83·0	82·5	82·3	82·3	82·4	82·4
6	84·7	84·6	83·6	83·0	82·9	83·0	82·4	82·0	82·0	82·3	82·0	82·0
7	83·9	83·8	83·2	83·0	82·9	83·0	83·0	82·7	82·5	82·3	82·3	82·1
8	82·5	81·8	81·9	82·0	82·0	82·2	82·2	82·2	82·1	82·0	82·0	81·9
9	83·0	83·0	82·3	82·2	82·2	82·6	82·5	82·3	82·2	82·0	82·0	82·0
10												
11	85·7	85·1	84·5	84·0	83·9	83·8	83·5	83·5	83·1	83·0	82·8	82·8
12	85·0	84·3	83·6	83·0	83·2	83·3	83·0	83·0	83·0	82·9	82·5	82·5
13	82·8	82·4	82·6	82·9	82·9	82·9	82·7	82·7	82·7	82·5	82·3	82·3
14	85·4	85·0	84·7	84·2	84·0	83·8	83·7	83·3	83·0	82·9	82·6	82·6
15	85·8	85·0	84·7	84·1	83·9	83·9	83·7	83·5	82·3	82·3	82·9	82·9
16	85·2	84·8	84·4	83·9	83·6	83·3	83·0	83·0	83·0	83·0	82.9	82.7
17												
18	85·4	84·9	84·3	84·0	83·7	83·5	83·3	83·4	83·0	92·7	82·2	81·6
19	82·6	83·0	82·9	82·8	82·7	82·6	82 6	82·8	82·5	82·3	82·0	82·0
20	86·2	85·6	85·0	84·4	84·0	84·2	83·9	83·5	83·3	83·0	83·0	82·9
21	86·0	85·6	85·0	84·4	84·0	84·0	84·0	83·9	83·5	83·3	83·3	83·0
22	86·1	85·7	84·0	83·4	83·4	83·8.	86·5	83·0	83·0	83·0	83·0	82·7
23	86·8	86·4	85·6	85·0	84·7	84·5	84·0	84·0	83·8	83·6	83·5	83·0
24												
25	85·2	84·8	84·4	83·9	83·5	83·0	83·0	82·8	82·8	82·2	81·2	81·4
25	83·0	82·0	81·9	81·5	81·5	81·7	81·3	81·2	80·9	81·0	81·0	80·9
27	84·2	84·0	83·1	82·8	82·5	82·2	82·0	82·0	82·0	81·8	81·7	81·8
28	83·9	82·9	82·4	82·0	82·0	82·0	82·0	82·0	82·0	81·5	81·3	81·3
29	81·0	80·9	80·5	80·2	79·9	80·4	80·7	80·5	80·9	80·8	80·8	80·8
30	83·5	84·0	83·5	83·0	82·4	82·4	82·4	82·1	82·2	81·7	81·0	81·3

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JULY, 1847.	1	18·460	18·400	18·500	18·730	19·195	19·800	19·875	19·900	19·700	19·570	19·195	18·940
	2	18·760	18·760	19·040	19·225	19·475	19·900	19·945	19·800	19·700	19·560	19·290	18·840
	3												
	4	18·640	18·570	18·700	18·910	19·140	19·400	19·400	19·400	19·280	19·000	18·690	18·490
	5	18·460	18·470	18·710	19·100	19·630	19·750	20·100	20·150	19·850	19·170	18·350	18·230
	6	18·625	18·650	18·875	19·050	19·440	19·750	20·200	20·250	20·085	19·920	19·135	18·250
	7	18·310	18·340	18·650	18·650	18·450	18·400	18·690	18·700	18·650	18·630	18·500	18·420
	8	18·240	18·310	18·470	18·650	18·920	19·200	19·350	19·400	19·250	18·880	18·600	18·500
	9	17·850	17·920	17·340	17·230	17·260	17·560	18·160	17·950	17·950	17·950	17·750	17·460
	10												
	11	17·500	17·755	17·710	18·245	18·360	18·400	18·650	18·650	18·200	18·270	17·750	17·390
	12	17·650	17·770	17·750	18·150	18·530	18·950	18·950	18·500	18·350	18·360	18·400	18·125
	13	17·900	17·900	18·030	18·160	18·320	18·550	18·550	18·350	18·400	18·360	18·075	17·775
	14	17·950	17·910	17·990	18·240	18·670	18·900	18·900	19·000	18·800	18·620	18·400	18·010
	15	17·810	17·810	18·025	18·130	18·460	18·750	19·150	19·410	19·450	19·220	18·990	18·420
	16	18·160	18·350	18·460	18·750	18·960	19·210	19·225	19·150	19·000	18·710	18·390	18·050
	17												
	18	18·300	18·310	18·430	18·670	18·705	19·250	19·350	19·320	19·300	18·900	18·820	18·560
	19	18·360	18·250	18·410	18·710	19·040	19·550	20·000	20·000	19·600	19·180	18·420	17·740
	20	18·210	18·225	18·275	18·550	18·760	18·950	19·050	18·950	18·850	18·540	18·400	18·300
	21	18·270	18·250	18·460	18·750	19·090	19·250	19·050	18·950	18·800	18·500	18·320	17·890
	22	18·645	18·790	19·075	19·040	18·950	18·825	19·030	19·020	18·750	19·670	18·500	18·080
	23	18·195	18·200	18·350	18·370	18·555	18·790	18·950	18·960	19·000	18·900	18·640	19·430
	24												
	25	18·315	18·250	18·530	18·600	18·700	19·030	19·205	19·290	19·175	19·400	19·380	19·110
	26	18·470	18·675	18·760	19·005	19·300	19·750	19·645	19·550	19·400	19·050	18·750	18·380
	27	18·455	18·520	18·645	18·860	19·050	19·385	19·700	19·450	19·200	19·080	18·920	18·800
	28	18·520	18·520	18·695	18·800	18·990	19·100	19·550	19·750	19·900	19·690	19·500	19·315
	29	18·700	18·700	18·920	19·140	19·370	19·650	19·600	19·637	19·375	19·110	18·790	18·640
	30	18·800	18·680	18·850	18·800	18·900	19·000	19·400	19·550	19·550	19·350	18·980	18·620

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JULY, 1847.	1	81°0	81°0	80°5	80°0	80°0	79°8	80°5	81°0	80°2	81°0	81°1	80°5
	2	79·5	79·2	78·8	78·6	79·6	80·6	82·0	81·0	81·0	81·1	81·4	81·5
	3												
	4	81·4	81·6	81·4	81·7	81·3	83·0	84·0	84·0	84·7	85·3	85·3	85·2
	5	82·3	82·3	81·9	81·8	81·6	82·3	83·0	84·0	84·0	85·1	85·3	84·7
	6	82·2	82·0	81·9	82·0	82·8	83·0	82·7	83·0	83·3	83·3	83·2	83·4
	7	82·1	81·9	82·0	82·1	82·6	83·5	84·0	84·0	84·3	84·5	84·0	83·3
	8	81·9	81·9	81·8	81·9	82·4	83·0	83·9	83·5	84·0	84·7	85·2	83·0
	9	82·0	81·9	81·8	82·0	82·0	82·6	83·9	84·5	84·2	84·8	84·6	84·6
	10												
	11	82·4	82·4	82·2	82·8	83·9	84·0	85·0	85·8	86·5	86·8	87·0	86·0
	12	82·5	82·6	82·4	82·8	83·2	84·2	85·0	85·5	86·4	85·2	83·4	83·0
	13	82·4	82·0	82·0	82·1	83·0	84·0	85·0	85·8	86·0	86·4	86·0	86·0
	14	82·4	82·3	82·0	82·5	83·0	84·0	84·8	85·3	85·6	87·0	86·3	86·2
	15	83·0	82·9	82·6	82·9	83·3	84·0	83·3	84·0	84·0	84·3	84·5	84·9
	16	82·9	82·9	82·4	82·2	82·9	83·0	84·0	84·8	84·9	84·8	83·9	84·3
	17												
	18	82·0	81·9	81·9	81·9	82·8	83·0	83·8	84·5	85·0	84·4	83·6	82·8
	19	82·0	82·0	81·8	82·0	82·7	83·7	84·0	85·0	85·0	85·4	86·0	86·3
	20	82·6	82·6	82·2	82·8	83·5	84·3	95·0	85·7	86·0	86·2	86·5	86·5
	21	83·0	83·0	83·0	83·0	83·4	84·0	84·7	85·5	86·2	86·7	86·9	86·8
	22	82·6	82·4	82·2	82·8	83·7	84·3	85·2	85·8	86·2	86·8	87·0	87·0
	23	83·0	82·9	82·6	83·0	83·3	83·5	84·0	83·8	83·1	83·0	83·4	83·9
	24												
	25	81·6	81·0	81·0	81·0	81·0	80·9	81·7	82·0	82·5	82·7	83·8	84·0
	26	80·0	79·9	79·9	79·8	80·0	80·8	81·5	82·2	83·0	84·0	84·6	84·0
	27	81·3	81·0	81·0	81·0	82·0	82·0	83·5	84·0	84·5	85·0	84·4	84·0
	28	81·2	81·0	80·6	81·0	81·1	80·9	80·8	80·8	81·0	81·9	82·0	81·9
	29	80·8	80·9	80·1	80·6	81·2	82·5	83·0	83·7	84·0	83·9	84·0	83·0
	30	81·6	81·4	81·3	81·7	82·4	83·3	84·2	85·0	85·7	86·0	86·0	86·2

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.		Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
AUGUST, 1847.	1	18·210	18·090	18·120	18·120	18·145	18·250	18·350	18·400	18·450	18·470	18·382	18·440
	2	18·470	18·415	18·545	18·575	18·540	18·550	16·500	18·550	18·500	18·580	18·610	18·660
	3	18·560	18·550	18·460	18·550	18·700	18·700	18·800	18·800	18·800	18·750	16·665	18·765
	4	18·100	18·070	17·910	17·900	18·375	18·500	18·550	18·700	19·050	19·042	19·300	19·260
	5	17·050	17·000	16·700	17·630	17·350	17·450	18·050	17·640	17·650	17·770	18·150	18·150
	6	18·450	18·320	18·210	18·290	18·220	18·250	18·450	18·250	18·250	18·260	18·355	18·250
	7												
	8	18·200	18·360	18·300	18·460	18·450	18·360	18·300	18·450	18·845	18·430	18·460	19·110
	9	17·840	17·790	18·010	18·120	18·150	18·200	18·240	18·250	18·350	18·340	18·315	18·470
	10	18·340	18·258	18 240	18·200	18·220	18·250	18·150	18·200	18·450	18·340	18·350	18·500
	11	18·380	18·340	18·450	18·410	18 300	18·360	18·450	18·450	18·450	18·500	18·440	18·560
	12	18·600	18·600	18·300	16·350	18·300	18·450	18·500	18·650	18·700	18·650	18·710	18·565
	13	19·130	18·950	18·800	18·740	18·800	18·800	18·800	18·800	18·800	18·870	18·900	18·990
	14	19·470	18·870	18·560	18·535	18·275	17·600	18·075	18·475	18·700	13·595	18·615	18·580
	15												
	16	18·200	18·220	18·770	18·750	18·690	18·500	18·600	18·700	18·875	18·535	18·770	18·827
	17	18·750	18·580	18·510	18·300	18·990	19·100	17·700	18·950	19·200	18·960	18·650	18·570
	18	18·950	18·900	18 930	18·720	18·680	18·625	18·475	18·600	18·550	18·362	18 390	18·410
	19	18·740	18·600	18·755	18·520	18·400	18·550	18 500	18·400	18·450	18·540	18·500	18·625
	20	18·450	18·186	18·240	18·180	18·350	18·385	18·357	18·375	18·350	18·425	16·460	18·560
	21												
	22	16·190	16·350	16·700	16·510	16·250	16·500	16·700	17·150	17·250	17·410	17·480	17·615
	23	17·605	17 750	17·830	17·810	17·900	17·950	17·925	18·000	18·000	18·100	18·100	18·220
	24	17·565	17·670	17 810	17·850	17·790	17·800	17·850	18·000	18·050	18·200	16·090	18·270
	25	17·200	17·360	17·130	16·760	16·670	17·150	17·500	17·550	17·450	17·600	17·750	17·955
	26	17·090	16·860	17·800	17·700	17·860	17·900	18·100	18·150	18·300	18·325	18·300	18·382
	27	18·900	18·760	18·590	18·590	18·650	18·475	18·550	18·650	18·550	18·600	18·675	18·645
	28												
	29	18·450	18·470	16·550	18·540	18·525	18·500	18·700	18·725	18·700	18·750	18·795	18·775
	30	18·680	18·600	18·550	18·400	18·240	18·500	18·425	18·500	18·500	18·560	18·620	18·750
		18·400	18 300	18·156	18·100	18·130	18·300	18 450	18·600	18·600	18·610	18·600	18·860

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.		Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
AUGUST, 1847.	1	85°8	86°1	84°4	83°9	82°6	83°5	83°0	83°0	83°0	83°9	83°0	82°7
	2	85·3	82·9	82·9	82·6	82·5	82·8	82·8	82·7	82·4	82·3	82,2	82·2
	3	82·7	82·9	82·5	82·2	82·0	82·0	81·8	82·0	81·8	81·7	81·2	80·8
	4	82·9	82·9	82·8	82·4	82·0	81·9	81·1	81·4	81·4	81·3	81·2	81·0
	5	82·5	81·9	81·9	81·9	81·8	81·8	81·8	81·8	81·8	81·5	81·6	81·0
	6	81·7	81·6	81·4	81·1	81·1	81·5	81·5	81·5	81·5	81·3	81·1	81·0
	7												
	8	82·8	82·6	81·4	81·4	81·3	81·5	81·2	81·0	81·0	80·5	80·6	80·2
	9	84·9	83·9	83·0	82·8	82·0	82·2	82·9	81·7	81·8	81·5	81·6	81·4
	10	84·6	84·2	83·8	82·8	82·8	82·8	82·3	82·0	82·0	81·8	81·8	81·6
	11	83·6	83·0	82·9	82·5	82·2	82 0	82·0	82·0	82·0	82·0	81·8	81·7
	12	83·0	82·3	82·0	82·0	81·8	81·8	81·5	81·4	81·3	81·5	81·3	81·0
	13	81·4	81·6	81·5	81·3	81·2	81·5	81·7	81·7	81·5	81·5	81·3	81·2
	14	83·8	82·9	81·0	81·1	81·0	80·3	80·7	80·9	80·7	80·8	80·5	80·5
	15												
	16	84·7	84·0	83·6	83·0	82·9	82·5	82·4	82·0	82·0	81·8	81·7	81·7
	17	85·2	84·2	83·8	83·2	82·5	92·8	82·7	82·5	82·4	82·2	82·1	82·1
	18	85·0	84·1	83·3	83·0	83·0	83·0	82·8	82·8	82·7	82·3	82·0	81·6
	19	83·8	82·9	82·8	82·7	82·5	82·5	82·3	82·0	82·0	82·0	82·0	81·7
	20	85·0	84·0	83·4	83·0	82·9	82·5	82·3	82·5	82·4	82·0	82·0	81·3
	21												
	22	83·5	83·0	83·0	83·0	82·7	82·6	82·5	82·0	82·2	81·8	81·5	81·4
	23	85·0	83·3	82·9	82·3	81·6	81·5	81·6	81·3	81·3	81·5	81·3	80·9
	24	83·4	83·1	83·0	82·5	82·0	82·0	82·0	81·6	81·5	81·3	81·3	81·3
	25	84·6	84·1	83·4	82·9	82·7	82·0	82·0	82·0	82·0	81·8	81·5	81·5
	26	84·8	84·0	83·0	82·7	82·2	82 0	82·0	82·0	82·0	81·6	81·5	81·2
	27	83·4	83·0	82·6	82·0	81·8	82·0	81·3	81·5	81·0	81·0	81·0	81·0
	28												
	29	84·0	83·6	83·0	82·7	82·3	82·3	81·9	81·7	81·6	81·5	81·3	81·2
	30	84·9	84·0	83·1	83·0	82·8	82·0	82·0	82·0	82·0	81·8	81·0	81·0
	31	85·4	84·8	83·9	83·3	83·0	82·7	32·3	82·3	82·0	82·0	81·7	81·6

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
AUGUST, 1847.	1	18·420	18·550	18·840	19·050	19·380	19·600	20·000	20·000	20·100	19·800	19·300	18·815
	2	18·750	18·760	18·760	18·760	18·900	18·950	19·000	18·950	19·000	19·000	18·920	18·710
	3	18·862	18·800	19·100	19·380	19·660	20·100	20·050	19·850	19·850	19·700	19·400	18·870
	4	19·340	19·360	19·600	20·000	17·590	17·650	17·450	17·300	17·490	17·240	17·735	17·400
	5	18·160	17·940	18·275	18·225	18·550	18·600	18·850	19·050	18·950	18·425	18·600	18·600
	6	18·770	18·750	18·715	18·400	18·690	18·970	19·160	19·325	19·110	19·187	19·260	19·010
	7												
	8	18·910	18·550	18·735	18·850	18·720	18·750	18·750	18·600	18·600	18·480	18·285	17·840
	9	18·350	18·300	18·685	18·895	19·160	19·100	19·050	19·200	19·050	18·850	18·600	18·427
	10	18·520	18·550	18·770	18·650	18·990	19·250	19·450	19·550	19·400	19·145	18·835	18·565
	11	18·565	18·550	18·730	18·910	19·080	19·100	19·050	19·250	19·300	19·110	18·900	18·750
	12	18·590	18·600	18·865	19·040	19·350	19·930	20·150	20·225	20·250	20·040	19·630	19·360
	13	19·000	19·025	19·275	19·330	19·810	20·350	20·560	20·600	20·350	20·050	20·335	20·060
	14	18·670	18·620	18·750	18·650	18·900	19·400	19·300	20·300	20·800	19·540	19·010	18·880
	15												
	16	18·805	18·800	18·900	19·100	19·430	19·850	20·000	19·950	19·650	19·300	19·460	19·065
	17	18·640	18·740	18·940	19·150	19·650	20·050	20·000	19·750	19·700	19·650	19·300	19·230
	18	18·735	18·390	18·825	18·830	19·160	19·250	19·700	20·000	19·950	19·760	19·385	19·060
	19	18·650	18·650	18·800	18·920	19·280	19·600	19·950	19·900	19·900	19·720	19·400	19·050
	20	18·740	18·850	19·125	19·175	19·535	20·050	20·400	20·650	20·450	20·150	19·637	19·180
	21												
	22	17·697	17·640	17·720	17·870	18·020	18·450	18·500	18·450	18·250	17·850	17·700	17·760
	23	18·450	18·435	18·395	18·485	18·700	19·075	19·550	19·400	18·850	18·420	18·000	17·600
	24	18·350	18·400	18·550	18·655	18·960	19·550	19·750	19·600	19·050	18·300	17·700	17·400
	25	18·170	18·220	18·275	18·500	18·880	18·850	18·950	18·790	18·550	18·390	18·055	17·580
	26	18·300	18·260	18·430	18·700	19·080	19·725	19·800	19·850	19·800	19·660	19·360	19·150
	27	18·610	18·775	18·765	18·705	19·130	19·400	19·500	19·350	19·430	18·950	18·440	17·860
	28												
	29	18·980	19·130	19·300	19·150	19·400	19·650	19·900	19·900	19·850	19·660	19·310	18·940
	30	18·750	18·950	19·100	19·290	19·650	20·200	20·500	20·150	19·800	19·370	18·950	18·610
	31	18·900	18·910	19·050	19·210	19·620	20·050	20·500	20·550	20·175	19·806	19·420	19·040

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
AUGUST, 1847.	1	82°4	82°0	82°0	82°2	82°2	82°0	83°0	84°5	85°0	85°4	85°6	85°6
	2	82·0	82·0	81·5	82·0	82·5	83·2	83·6	84·0	84·5	85·0	84·7	83·2
	3	80·8	80·8	80·8	80·8	81·7	82·7	84·0	84·5	84·8	84·0	82·5	82·5
	4	81·2	81·0	80·9	81·5	81·9	82·2	83·3	83·0	83·9	83·0	82·9	82·7
	5	81·0	81·0	81·0	81·0	81·9	82·0	83·0	82·8	83·0	82·4	82·4	82·3
	6	80·7	80·8	80·8	80·6	81·0	81·1	81·6	82·0	92·0	82·5	82·7	82·6
	7												
	8	80·4	80·3	80·3	80·8	81·0	82·6	83·7	85·1	86·0	85·0	85·2	85·0
	9	81·3	80·9	80·6	80·9	81·5	82·8	84·0	84·3	84·7	85·4	85·8	85·7
	10	81·6	81·5	81·4	81·4	81·8	82·8	83·0	84·1	85·0	85·0	85·0	84·2
	11	81·5	81·6	81·0	81·4	82·0	82·0	82·0	82·0	83·5	84·0	83·3	83·0
	12	81·3	81·0	81·0	81·0	80·3	90·0	79·0	81·2	82·5	82·2	82·8	81·7
	13	80·4	80·0	79·6	79·7	80·0	81·5	62·2	84·0	84·1	84·7	85·2	84·1
	14	80·3	80·3	80·2	80·9	81·2	82·1	82·9	83·0	83·2	83·5	84·0	83·9
	15												
	16	81·8	81·7	81·5	81·6	82·0	83·0	83·9	85·0	85·3	86·0	85·8	85·7
	17	81·9	81·9	81·6	81·3	82·0	83·0	84·0	85·0	84·9	84·4	85·0	85·0
	18	81·4	81·6	81·2	81·4	82·0	83·0	82·2	83·5	84·7	85·3	85·2	84·0
	19	81·8	81·6	81·0	81·0	81·6	82·8	84·0	84·5	85·0	85·0	85·0	85·2
	20	81·4	81·1	80·8	81·6	82·3	83·5	83·5	84·2	85·0	85·5	85·9	85·8
	21												
	22	81·0	81·3	81·1	81·7	82·1	83·9	84·8	85·2	86·0	86·0	86·0	85·0
	23	80·7	80·8	80·0	80·0	80·0	81·0	82·0	83·7	84·2	84·5	85·0	85·2
	24	81·0	81·0	81·0	81·0	81·0	82·0	83·0	84·0	85·0	85·2	85·0	84·5
	25	81·3	81·1	81·0	81·4	81·7	83·0	84·0	84·5	85·0	85·5	85·6	85·3
	26	81·4	80·7	80·6	81·0	81·0	81·9	83·0	83·9	84·0	84·4	84·0	84·0
	27	80·4	80·5	80·4	80·8	81·5	83·0	84·0	84·2	84·9	85·3	85·6	85·0
	28												
	29	81·0	81·0	80·8	81·0	81·8	83·0	82·0	83·6	84·5	84·8	84·9	84·9
	30	81·0	80·6	80·2	80·2	81·0	82·2	83·2	84·0	84·3	84·9	85·4	85·6
	31	81·6	81·0	81·0	81·1	82·0	82·8	83·7	84·0	84·8	85·0	85·3	85·7

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
SEPTEMBER, 1847. 1	18·910	18·890	18·750	18·570	18·560	18·700	18·550	18·650	18·650	18·740	18·800	18·800
2	19·300	19·260	19·160	18·900	18·725	19·000	19·200	19·300	18·950	19·100	19·050	18·950
3	18·900	18·740	18·800	18·750	18·830	19·100	19·150	19·100	19·050	19·170	19·170	19·110
4												
5	18·805	18·870	18·800	18·680	18·560	18·750	18·700	18·700	19·000	18·750	18·760	18·910
6	19·150	18·930	18·750	18·750	18·840	18·850	18·810	18·000	18·950	19·230	19·125	19·060
7	19·190	18·980	18·880	18·880	19·050	18·950	19·000	19·150	19·050	19·110	19·070	19·150
8	19·800	19·590	19·470	19·450	19·450	19·395	19·300	19·250	19·250	19·200	19·185	19·180
9	20·740	20·000	19·420	19·150	18·820	19·500	19·050	19·000	18·850	19·340	19·090	19·045
10	19·230	19·250	19·410	19·425	19·270	19·400	19·250	19·400	19·450	19·500	19·300	19·550
11												
12	18·840	18·650	18·740	18·710	18·710	18·700	18·800	18·900	18·850	18·800	18·990	19·000
13	17·305	16·840	16·500	16·490	16·655	16·350	16·705	16·590	16·900	17·850	17·810	18·070
14	18·350	18·210	18·160	18·280	18·190	18·400	18·500	18·550	18·350	18·350	18·650	18·660
15	18·720	18·630	18·530	18·380	18·330	18·300	18·300	18·350	18·395	18·420	18·480	18·575
16	19·060	18·950	19·050	18·800	18·745	18·700	18·700	18·750	18·800	18·842	19 010	19·270
17	18·350	18·330	18·150	17·990	18·000	17·700	17·650	17·800	18·250	18·330	18·400	18·525
18												
19	18·540	18·570	18·520	18·350	18·300	18·395	18·400	18·500	18·550	18·500	18·580	18·645
20	18·990	18·890	18·810	18·620	18·660	18·700	18·750	18·810	18·950	18·975	18·920	18·960
21	18·520	18·550	18·500	18·420	18·560	18·650	18·650	18·750	18·800	18·935	18·947	18·890
22	18·660	18·590	18·400	18·460	18·520	18·400	18·550	18·700	18·750	18·610	18·700	18·680
23	18·500	18·190	17·850	17·390	17·200	17·450	17·550	18·000	17·950	18·280	18·500	18·520
24	17·360	13·940	11·190	8·700	10·550	6·500	8·350	9·445	10·550	10·450	13·755	13·675
25												
26	16·675	16·760	16·430	16·580	16·450	16·400	16·500	16·600	17·100	16·950	16·470	16·750
27	12·515	11·125	12·350	12·000	13·690	14·115	14·460	15·600	15·750	16·157	16·190	15·900
28	16·640	16·730	16·710	16·680	16·730	16·750	16·850	16·900	16·850	17·080	17·900	17·340
29	17·465	17·520	17·700	17·960	17·710	17·500	17·750	17·250	17·000	17·105	16·600	16·355
30	17·400	17·330	17·300	17·200	17·250	17·200	17·200	17·150	17·450	17·560	17·620	17·900

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
SEPTEMBER, 1847. 1	85°3	84°5	83°6	83°1	82°8	82°3	82°5	82°5	82°5	82°2	82°2	82°0
2	83·3	83·0	82·5	82·2	82·2	82·3	82·0	82·0	82·0	82·0	82·0	81·7
3	84·0	83·1	82·8	82·4	81·9	81·5	81·1	81·5	81·6	81·0	81·0	81·0
4												
5	84·0	83·0	82·9	82·4	82·0	82·0	81·5	81·2	81·0	81·0	80·9	80·5
6	83·0	82·4	81·9	81·8	81·6	81·7	81·5	81·2	81·0	81·0	81·0	80·8
7	82·1	81·8	81·0	80·9	80·9	80·8	80·9	80·7	80·5	80·6	80·5	80·4
8	80·0	79·7	79·6	79·4	79·4	79·7	79·7	79·5	79·5	79·4	79·4	79·0
9	77·0	77·2	77·5	77·4	77·4	78·0	78·0	78·0	78·0	77·4	77·0	77·3
10	80·3	79.5	79·0	79·0	79·0	79·2	79·0	79·0	79·0	79·0	79·0	78·9
11												
12	83·4	83·0	82·0	82·0	81·8	81·5	81·2	81·0	81·1	91·0	80·9	80·7
13	84·6	83·9	83·0	82·9	82·4	82·6	82·5	82·2	82·0	81·6	81·6	81·6
14	85·4	83·5	82·6	82·0	82·0	82·0	82·0	81·6	81·2	81·0	81·0	81·0
15	84·0	83·0	82·9	82·4	82·4	82·4	82·0	82·0	81·8	81·4	81·5	81·2
16	84·8	84·0	83·0	82·9	82·6	82·4	82·2	82·0	81·9	81·5	81.4	81·3
17	84·9	84·1	83·4	83·0	82·6	82·5	82·1	82·0	82·0	81·8	81·7	81.7
18												
19	85·8	85.0	84·3	83·9	83·6	83·5	83·2	83·0	83·0	82·6	82·0	—
20	84·8	84·1	83·5	83·0	82·6	82·3	82·0	81·8	81·5	81·2	81·0	81·0
21	84·9	84·0	83·1	83·0	82·5	82·0	82·0	81·7	81·4	81·0	81·0	81·0
22	84·3	83·8	83·0	82·6	82·4	82·3	82·0	82·0	82·0	81·8	81·8	81.7
23	84·8	84·0	83·0	82·9	82·8	82·5	82·5	82·2	82·0	81·9	81·8	81·6
24	85·0	84·1	83·6	83·1	83·0	83·0	82·7	82·8	82·4	82·3	82·0	81·0
25												
26	85·0	84·0	83·4	83·0	83·0	83·0	82·5	82·5	82·4	82·0	81·4	81·2
27	85·4	84·7	83·8	83·0	83·0	82·8	82·6	82·5	82·5	82·4	82·0	82·0
28	85·2	84·5	83·8	83·5	83·3	83·5	83·2	83·0	83·0	82·9	82·8	82·4
29	84·7	84·2	83·7	83·3	83·0	83·0	83·0	82·8	82·7	82·5	82·4	82·0
30	83·7	83·2	82·8	82·2	82·0	82·0	82·0	81·8	81·2	81·2	81·2	81·0

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

SEPTEMBER, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	18·810	18·900	19·000	18·930	19·250	19·750	20·650	20·150	20·250	19·940	19·760	19·400
2	19·067	19·245	19·350	19·250	19·540	20·050	20 350	20·450	20·450	20·000	19·600	19·150
3	19·250	19·146	19·160	18·900	19·115	19·450	19·550	19·500	19·500	19·250	19·045	18·900
4												
5	18·950	19·110	19·210	18·950	19·010	19·650	19·630	20·190	20·140	20·000	19·700	19·370
6	19·120	19·100	19·250	19·200	19·550	19·850	20·150	20·350	20·300	19·910	19·570	19·400
7	19·110	19·170	19·350	19·570	20·080	20·450	20·800	20·750	20·650	20·390	20·180	20·000
8	19·255	19·545	19·630	19·815	20·230	20·940	21·100	21·150	20·950	20·777	20·700	20·750
9	19·000	18·950	19·255	18·950	19·080	19·615	19·909	20·100	20·150	19·990	19·700	19·440
10	19·490	19·310	19·150	19·190	19·720	20·190	20·450	20·250	19·850	19·190	19·050	18·980
11												
12	19·000	19·010	19·630	19·380	19·260	19·750	19·750	19·350	19·400	19·060	18·400	17·480
13	17·970	18·050	18·310	17·950	17·920	18·350	18·650	18·700	18·850	18·630	18·800	18·600
14	18·540	18·540	18·650	18·750	19·030	19·350	19·550	19·750	19·600	19·470	19·270	19·000
15	18·600	18·600	18·740	18·700	18·930	19·360	19·750	20·150	20·350	20·280	19·910	19·490
16	19·650	19·400	19·500	19·350	19·600	20·050	19·750	19·950	19·750	19·620	19·050	18·710
17	18·660	18·700	18·780	18·860	19·320	19·750	19·850	19·700	19·550	19·220	19·800	18·790
18												
19	18·685	19·060	18·980	18·965	18·965	19·500	19·850	20·100	19·900	19·550	19·340	19·170
20	18·860	18·800	18·850	18·800	18 850	19·050	19·250	19·100	18·950	18·715	18·705	18·600
21	18·990	19·000	19·090	18·880	18 810	19·150	19·350	19·660	19·700	19·470	19·190	18·860
22	18·700	18·780	18·900	18·500	18·700	19·500	19·850	19·845	19·550	19·070	18·975	18·770
23	18·370	18·950	18·820	18·420	19·450	19·500	19·050	19·100	18 800	18·170	17·985	17·500
24	13·250	13·525	14·200	14·700	15·120	15·750	16·350	16·400	16·350	16·270	15·990	15·800
25												
26	19·850	17·950	17·825	17·140	16·700	17·400	18·200	17·800	17·300	16·765	16·770	15·300
27	16·265	16·250	16·320	16·350	16·750	16·100	16·945	17·100	17·150	17·030	16·790	16·650
28	17·450	17·820	17·420	17·250	17·680	18·450	18·700	18·950	18·450	17·960	17·730	17·520
29	16·550	16·670	16·940	16·690	17·420	17·400	17·600	17·500	17·650	17·520	17·510	17·500
30	17·940	18·040	18·150	18·010	18·470	19·100	19·350	19·550	19·150	18·880	18·660	18·310

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

SEPTEMBER, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	82°0	81°7	81°3	81°6	82°0	82°3	82°8	82°2	82°8	83°2	83°6	83°4
2	81·5	80·8	80·6	81·0	81·6	82·0	83·0	83·7	84·1	85·1	85·0	84·0
3	80·6	80·7	79·6	80·0	80·0	81·0	82·5	82·8	83·0	82·9	83·2	81·9
4												
5	79·8	79·9	79·6	79·2	79·1	80·2	81·0	82·0	81·9	82·9	83·2	83·0
6	80·8	80·8	80·0	80·1	80·1	80·5	80·7	80·9	81·0	82·0	82·7	82·5
7	80·4	80·2	80·0	79·4	79·8	80·0	79·0	80·0	80·0	79·8	80 2	80·2
8	77·9	77·9	77·8	77·2	77·1	77·0	77·0	76·7	77·0	77·3	77·2	77·0
9	77·5	77·5	77·4	77·2	77·7	78·4	79·0	79·8	80·7	81·0	81·0	80·8
10	79·0	78·9	78·9	79·0	79·4	79·0	80·2	81·3	81·8	83·0	83·0	82·7
11												
12	80·6	80·6	80·2	80·8	81·5	83·0	83·9	84·1	84·8	84·9	85·0	85·0
13	81·2	81·0	81·0	81·1	82·0	82·5	85·5	84·2	85·2	85·3	85·4	85·4
14	81·2	81·0	81·0	81·0	81·4	82·5	83·0	84·0	84·4	85·0	84·8	84·2
15	81·0	80·9	80·6	80·9	81·8	82·4	83·7	84·2	84·6	85·0	85·1	85·0
16	81·2	81·0	80·8	80·9	81·8	82·7	83·3	84·5	84·9	85·0	85·2	85·0
17	81·6	81·3	81·0	81·0	82·0	83·2	84·0	84·8	85·3	85·4	85·6	85·7
18												
19	82·0	81·9	81·4	81·3	81·8	83·0	84·0	84·2	84·5	84·6	85·0	85·1
20	81·2	81·0	80·7	80·8	81·2	82·5	83·5	84 0	84·4	84·7	85·1	85·0
21	80·7	80·7	80·3	80·7	81·3	82·0	83·8	83·8	84·0	84·2	84·5	84·5
22	81·5	81·4	81·1	81·4	82·2	83·0	84·0	84·3	84·5	84·6	85·0	85·0
23	81·2	81·0	81·0	81·2	81·9	83·0	84·0	84·8	85·0	85·0	85·3	85·4
24	82·0	80·6	79·8	79·9	80·0	81·5	83·0	83·9	85·0	85·4	85·8	85·8
25												
26	81·2	81·0	80·5	80·4	81·0	82·0	83·0	84·0	84·8	85·2	85·8	85·9
27	81·7	81·5	81·2	81·5	82·2	83·3	84·0	85·0	85·5	85·5	85·9	85·8
28	82·5	82·3	81·0	80·8	81·0	82·2	83·2	84·7	85·0	84·6	84·5	84·5
29	81·8	81·6	81·0	81·0	82·0	83·0	84·0	84·9	85·0	85·4	85·4	84·2
30	80·7	80·5	80·2	80·8	81·6	82·7	83·5	84·8	85·0	85·2	85·5	85·7

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
OCTOBER, 1847. 1	17·990	17·800	17·800	17·740	17·710	17·500	17·600	17·650	17·750	17·850	17·850	18·410
2												
3	18·090	18·040	17·960	17·800	17·710	17·700	17·670	17·000	17·705	17·795	17·860	17·900
4	18·170	18·200	18·200	18·110	18·130	18·150	18·300	18 350	18·400	18·375	18·460	18·630
5	18·330	18·450	18·340	18·150	17·940	18·050	18·200	18·250	17·900	18·160	18·245	18·265
6	18·205	18·385	18·300	18·200	18·200	18·200	18·400	18·400	18·450	18·490	18·562	18·600
7	18·530	18·550	18·410	18·380	18·730	18·350	18·350	18·600	18·750	18·800	18·930	18·900
8	18·280	18·360	18·460	18·130	18·190	18·200	18·150	18·000	18·300	18·455	18·040	18·080
9												
10	18·090	18·035	17·840	17·810	17·540	17·550	17·400	18·150	18·100	18·210	18·307	18·285
11	18·035	18·170	18·140	17·980	17·970	17·950	18·090	18·050	18·450	18·400	18·120	18·245
12	18·430	18·410	18·490	18·300	18·010	17·950	18·000	18·000	18·400	18·760	18·400	18·492
13	16·210	16·560	14·900	14·215	14·010	14·950	15·450	16·100	16·190	16·070	16·380	18·525
14	17·390	17·100	16·750	16·590	16·650	16·925	17·090	17·150	17·300	17·515	17·615	17·805
15	17·200	17·490	17·140	17·270	17·155	17·100	17·450	17·800	17·850	17·780	17·700	17·900
16												
17	17·610	17·510	17·140	17·050	17·170	17·200	17·450	17·500	17·550	17·710	17·640	17·800
18	17·080	17·110	16·850	16·435	16·150	17·350	17·350	17·200	17·200	17·720	17·510	17·500
19	18·000	17·720	17·380	17·470	17·110	17·050	17·650	17·550	17·550	17·650	17·590	17·625
20	17·810	17·360	17·860	17·750	17·700	17·650	17·650	17·650	17·600	17·910	17·900	17·927
21	18·400	18·310	18·230	18·100	18 000	18·050	18·100	18·100	18·100	18·200	18·300	18·440
22	18·360	18·210	17·950	17·850	17·950	18·100	18·090	18·250	18·350	18·375	18·490	18·425
23	13·130	10·440	6·075	7·370	10·225	10·150	9·800	10·800	13·420	12·770	13·485	14·775
24												
25	13·950	14·300	13·580	12·975	14·875	14·750	14·850	16·100	15·800	15·575	15·540	15·585
26	16·110	16·150	16·250	16·190	16·400	16·050	16·200	16·400	16·400	16·320	16·540	16·745
27	16·940	16·980	16·960	16·850	16·710	16·650	16·750	16·900	16·975	16·990	17·140	17·430
28	17·590	17·550	17·500	17·380	17·300	17·300	17·570	17·690	17·600	17·500	17·775	17·860
29	18·820	19·150	18·220	17·100	16·900	17·500	16·900	17·500	17·635	17·600	17·725	17·825
30												
31	18·080	18·120	18·020	17·850	17·795	17·900	18·050	18·000	17·850	17·810	17·860	17·980

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
OCTOBER, 1847. 1	85°6	85°0	84°6	84°0	84°0	83°9	83°6	83°5	83°0	82°8	82°5	82°3
2												
3	86·7	85·9	85·5	85·0	85·0	85·0	84·8	84·5	84·2	84·0	84·0	83·9
4	86·1	85·5	85·0	84·4	84·2	84·0	83·8	83·7	83·5	83·0	83·0	82·9
5	86·2	85·2	84·4	84·0	83·7	83·2	82·8	82·7	82·6	82·0	81·8	81·8
6	86·3	85·7	84·9	84·4	84·0	83·5	83·1	83·0	83·0	82·7	82·3	82·4
7	86·0	85·0	84·5	84·0	83·9	83·5	83·4	83·0	82·7	82·2	82·0	82·0
8	85·8	85·0	84.3	84·0	83·8	83·7	83·5	83·5	83·2	83·0	82·5	82·3
9												
10	88·2	87·2	86·3	86·0	85·9	85·2	85·0	85·2	84·0	83·5	83·2	83·2
11	88·0	86·9	86·0	85·7	85·6	85 0	84·5	84·2	84·0	84·0	84·0	83·8
12	83·0	87·3	87·0	86·9	86·7	86·6	86·4	86·0	85·5	85·0	84·8	84·4
13	89·7	88·7	88·0	87·7	87·0	86·9	86·1	86·0	85·4	85·0	85·0	84·5
14	88·3	87·4	86·6	86·1	86·0	85·2	85·0	84·8	84·4	84·0	83·8	83·5
15	86·2	85·8	85·6	85·4	85·0	84·8	84·0	84.2	84·0	84·0	83·8	83·6
16												
17	89·0	88·0	87·3	87·0	87·0	86·8	86·3	86·0	85·6	85·2	85·0	84·8
18	89·0	88·0	87·2	87·0	86·4	86·2	86·2	86·0	85·7	85·3	85·2	85·0
19	87·9	87·0	86·6	85·2	86·0	85·0	85·2	85·0	85·0	84·8	84·5	84·5
20	88·9	88·0	87·3	87·0	86·6	86·2	86·0	85·7	85·0	84·5	84·3	84·0
21	86·9	85·7	85·4	85·0	84·9	85·0	84·8	84·5	84·0	83·8	83·4	83·2
22	87·0	86·2	85·7	85·0	84·9	85·1	84·5	83·9	83·4	83·0	83·0	83·2
23	88·2	87·5	86·4	85·9	85·5	85·0	84·8	84·7	84.7	84·5	84·3	84·0
24												
25	87·5	86·6	86·0	86·0	86·0	85·7	85·3	85·0	85·3	85·5	85·5	85·6
26	91·0	88·9	88·0	87·5	86·8	86·3	86·0	86·0	85·9	85·9	85·5	85·5
27	89·8	89·0	88·6	88·0	87·4	87·0	86·4	86·0	86·0	85·5	85·5	84·8
28	88·0	87·6	86·9	86·5	86·0	85·8	85·0	84·5	85·0	84·0	84·0	83·6
29	88·0	87·0	86·4	86·0	85·6	85·5	84·8	84·0	84·0	84·0	83·5	83·5
30												
31	88·6	87·3	86·4	86·0	85·8	85·3	85·3	84·8	84·8	84·3	84·5	84·5

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.		12h. 0	13h.	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
OCTOBER, 1847.	1	18·205	18·250	18·350	18·340	18·800	19·200	19·300	19·250	19·100	18·750	18·440	18·100
	2												
	3	18·140	18·100	18·220	18·160	18·500	18·950	19·350	19·350	19·250	18·910	18·550	18·250
	4	18·727	18·805	18·800	18·480	18·740	18·900	19·475	19·700	19·500	18·940	18·440	19·360
	5	18·300	18·485	18·470	18·385	18·470	18·850	19·600	19·750	19·550	19·160	18·720	18·360
	6	18·535	18·600	18·675	18·650	18·980	19·550	20·200	20·260	20·100	19·620	19·200	18·720
	7	19·060	19·150	19·115	19·020	19·500	20·900	21·350	21·950	21·200	19·730	19·410	18·990
	8	18·150	18·410	19·000	19·095	19·560	20·050	20·400	20·850	20·390	20·300	18·840	18·600
	9												
	10	18·310	18·310	18·415	18·430	18·592	19·200	19·500	19·550	19·450	19·060	18·560	18·150
	11	18·245	18·250	18·350	18·370	18·950	19·450	19·800	19·850	19·550	19·040	18·680	18·420
	12	18·080	18·770	18·750	18·750	18·900	19·050	19·250	19·000	18·850	18·420	17·280	16·590
	13	16·570	16·780	17·020	17·150	17·440	17·950	18·150	18·400	18·200	18·040	17·700	17·500
	14	17·880	17·885	18·195	18·340	18·830	19·300	19·600	19·700	19·560	19·235	18·600	17·850
	15	18·020	18·350	18·295	18·190	18·600	19·050	19·600	19·700	19·300	18·770	18·500	18·080
	16												
	17	17·950	18·090	18·250	18·250	18·560	18·985	18·100	18·850	18·650	17·830	17·410	17·080
	18	17·560	17·550	17·755	17·800	18·450	18·900	19·300	19·500	18·960	18·750	18·430	18·240
	19	18·000	17·890	18·150	18·050	18·580	18·800	19·000	19·050	18·850	18·500	18·200	17·900
	20	17·945	17·715	17·985	18·460	18·785	19·505	19·850	19·650	19·503	19·350	18·940	18·640
	21	18·550	18.650	19·000	19·000	19·490	19·750	20·125	20·000	19·850	19·380	19·000	18·600
	22	18·405	18·765	18·750	18·740	21·070	20·400	21·300	21·300	19·600	19·920	12·810	14·060
	23	14·540	13·850	14·300	14·650	15·110	15·600	16·000	17·100	15·625	16·270	16·400	15·455
	24												
	25	15·560	15·750	15·800	16·120	16·500	16·950	17·050	17·200	17·130	16·850	16·520	16·235
	26	16·890	16·980	17·000	16·920	17·350	17·750	18·300	18·605	17·350	17·750	17·350	17·100
	27	17·495	17·440	17·650	17·310	17·650	18·100	18·250	18·100	17·950	17·780	17·720	17·625
	28	17·900	17·990	18·100	18·130	18·350	18·555	18·750	19·100	18·850	18·390	18·210	17·850
	29	16·050	18·475	18·330	18·490	18·900	19·200	19·400	19·400	19·150	18·720	18·025	17·345
	30												
	31	17·500	18·350	18·500	18·460	18·580	18·800	18·950	18·950	18·750	18·400	18·340	18·030

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
OCTOBER, 1847.	1	82°2	82°0	82°0	82°0	83°0	84°2	85°0	85°0	86°0	86°0	86°5	87°0
	2												
	3	83·5	83·3	83·0	83·4	84·0	85·0	86·0	86·9	86·7	96·8	85·5	86·2
	4	82·5	82·2	82·0	82·3	83·2	84·8	85·7	86·2	86·2	87·0	87·0	86·7
	5	81·4	81·0	81·0	81·4	82·9	84·0	84·8	85·0	85·6	86·0	86·3	86·5
	6	82·4	82·0	81·8	82·0	82·7	83·8	84·7	85·3	85·3	85·5	86·2	86·8
	7	81·8	81·7	81·8	82·0	82·8	84·0	85·2	85·2	85·5	85·8	85·8	83 0
	8	82·0	81·8	81·4	82·0	83·0	84·8	85·5	86·0	86·0	87·0	87·0	86·4
	9												
	10	83·0	82·9	82·3	82·2	83·5	85.4	87·0	87·4	87·8	88·2	88·4	88·5
	11	83·7	83·6	83·6	83·8	84·8	86·5	87·9	88·9	88·5	88·8	88·6	88·4
	12	84·2	83·9	83·5	84·0	84·8	86·0	87·5	88·5	89·0	89·4	90·0	90·4
	13	84·4	84·0	83·7	83·9	84·7	86·0	87·0	87·8	88·8	89·0	89·0	88·8
	14	83·3	82·9	82·2	82·3	83·0	84·0	85·5	87·5	87·0	86·9	86·5	86·5
	15	83·3	82·9	82·2	82·0	82·9	84·0	85·0	86·0	86·5	86·9	87·2	87·0
	16												
	17	84·7	84·3	84·2	84·1	85·0	86·4	87 6	88·0	88·8	89·0	89·0	89·1
	18	84·8	84·6	84·2	84·5	85·0	86·0	87·0	88·0	88·0	88·0	88·3	88·2
	19	84·0	84·0	83·7	83·6	84·6	85·9	87·0	87·8	88·5	88·8	88·9	89·0
	20	84·0	83·6	82·2	81·8	82·2	83·0	83·9	85·0	86·0	86·5	87·0	87·0
	21	83·1	83·0	82·7	83·0	84·0	85·2	86·0	87·0	87·3	87·5	87·6	87·6
	22	83·5	82·8	82·8	82·8	83·6	85·0	86·0	87·0	87·5	88·0	88·4	88·9
	23	83·8	83·9	83·4	83·9	84·8	85·5	87·5	89·0	89·0	88·9	88·0	87·4
	24												
	25	85·0	84·0	84·0	84·0	84·8	86·0	87·5	88·5	89·1	90·7	91·0	91·0
	26	85·0	85·0	84·8	84·6	85·3	87·0	88·0	88·8	89·5	90·0	90·0	90·4
	27	84·6	84·9	84·2	84·0	85·0	86·0	87·7	89·0	89·8	89·7	88·8	88·0
	28	83·8	83·0	82·6	82·8	84·0	86·1	87·0	87·4	87·6	87·6	88·0	88·0
	29	83·0	82·1	81·7	82·0	83·2	85·1	86·2	87·5	88·5	88·9	89·0	89·2
	30												
	31	84·5	84·4	84·0	84·3	85·0	85·8	86·5	87·0	87 5	87·9	88·7	88·2

NOVEMBER, 1847.

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	17·590	17·320	16·610	14·590	15·145	16·600	17·100	17·200	17·250	17·425	19·790	17·840
2	17·225	17·300	17·305	17·390	17·415	17·600	17·600	17·650	18·300	17·750	17·917	18·150
3	17·250	17·200	17·350	17·350	17·490	17·600	17·950	18·000	17·950	17·900	17·950	18·050
4	18·300	19·625	18·690	18·775	18·850	18·875	18·900	18·850	19·025	18·800	19·110	19·040
5	20·000	19·805	19·855	19·925	20·050	20·075	20·050	20·000	19·875	19·950	19·850	20·110
6												
7	20·050	20·110	19·885	19·850	19·770	19·625	19·725	19·900	19·900	19·950	16·900	19·900
8	19·200	19·030	19·000	18·750	19·025	19·125	19·200	19·300	19·600	19·440	19·500	19·725
9	19·410	19·170	19·050	19·360	19·050	19·030	19·225	19·350	19·450	19·450	19·620	19·650
10	19·220	19·225	19·350	19·097	18·315	19·000	18·700	19·000	19·475	19·460	19·300	19·350
11	18·850	18·955	19·150	19·085	19·000	18·925	18·950	19·200	19·300	19·275	19·600	19·700
12	16·880	18·890	18·920	19·000	19·000	18·895	19·075	19·227	19·350	19·900	19·560	19·650
13												
14	19·050	19·100	19·020	19·150	18·705	19·050	18·625	18·850	19·350	19·040	19·180	19·200
15	18·650	19·700	18·960	18·900	18·890	19·225	18·800	19·000	19·100	19·155	19·525	19·500
16	18·490	18·600	18·340	18·175	18·180	18·200	18·450	18·500	18·600	18·450	18·950	19·020
17	18·710	18·830	18·935	18·835	18·800	18·850	19·025	19·200	19·425	19·350	19·550	19·700
18	19·230	19·130	18·350	18·895	19·100	19·050	19·275	19·400	19·650	19·850	19·900	20·000
19	19·210	19·270	19·305	19·120	19·160	19·200	19·100	19·375	19·950	19·650	18·800	18·400
20												
21	18·610	18·600	18·640	18·620	18·560	18·600	18·800	18·975	18·950	19·240	19·250	19·225
22	19·240	19·425	19·605	19·100	19·400	21·250	21·600	18·200	18·950	16·750	17·025	16·800
23	16·270	16·600	16·800	16·825	16·750	17·150	17·000	17·425	17·700	17·850	17·990	17·990
24	17·395	17·450	17·610	17·665	17·740	18·100	18·500	18·550	18·850	18·750	18·710	18·660
25	17·550	16·980	17·195	17·730	17·260	17·675	16·450	16·325	17·775	16·990	17·280	17·090
26	16·680	16·600	17·340	17·005	17·220	17·850	18·250	17·925	18·050	18·240	18·380	18·300
27												
28	19·190	19·120	19·080	19·195	19·310	19·375	19·425	19·700	19·950	20·050	20·090	20·090
29	20·045	19·860	19·930	19 850	20·100	20·100	20·100	20·300	20·375	20·375	20·600	20·820
30	19·870	19·790	19·850	19·710	19·740	19·800	19·800	19·800	19·825	19·820	20·000	19·910

NOVEMBER, 1847.

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	87°2	86°8	86°2	85°0	84°0	83°8	84°0	83°7	83°8	83°3	83°3	83°5
2	86·0	85·8	84·2	84·0	83·9	83·9	83·9	83·5	83·4	83·0	82·3	82·0
3	85·8	85·0	84·8	84·0	83·8	83·4	83·0	83·0	82·8	82·8	82·8	82·5
4	82·0	80·2	80·0	79·8	79·6	79·7	79·7	79·7	79·4	79·3	79·5	79·5
5	76·4	75·5	75·9	75·8	75·6	75·7	75·8	76·0	76·0	76·0	76·2	76·2
6												
7	78·2	77·1	76·7	76·2	75·8	75·5	75·5	75·0	74·0	74·0	74·0	74·0
8	80·0	78·9	78·0	77·3	77·0	76·5	76·0	75·9	75·7	75·5	75·6	76·8
9	81·0	79·9	79·0	78·5	78·3	78·0	77·5	77·5	77·4	77·0	76·8	76·5
10	81·0	79·8	78·9	78·2	78·0	77·5	77·0	77·0	77·0	76·4	76·4	76·0
11	82·8	80·9	80·0	79·5	79·0	78·5	78·0	77·2	77·2	77·2	77·5	76·8
12	83·6	82·8	81·5	80·8	80·0	79·0	78·5	78·7	78·6	77·6	77·0	77·0
13												
14	84·3	83·0	82·3	81·7	81·0	81·0	80·9	80·5	79·9	79·0	77·8	77·7
15	84·6	83·5	82·7	82·1	81·5	81·0	80·2	80·0	80·0	79·4	78·5	78·4
16	84·5	83·0	81·9	81·5	81·0	80·9	80·0	79·5	79·0	78·8	78·2	77·9
17	84·5	83·0	81·9	81·3	80·8	80·2	79·5	79·0	78·9	78·2	77·8	77·2
18	84·0	82·8	81·5	81·0	80·7	80·0	79·0	78·0	78·0	77·0	77·0	76·8
19	84·6	83·9	83·0	82·5	81·9	81·0	80·0	79·0	78·9	78·5	79·1	77·5
20												
21	84·8	83·2	82·0	81·7	81·0	80·3	79·9	79·5	79·2	78·9	78·6	78·0
22	83·9	82·8	81·7	81·0	80·8	80·2	80·0	79·0	78·9	78·4	78·4	78·0
23	84·0	82·8	81·5	81·1	80·7	80·0	79·8	79·2	78·9	78·0	77·8	77·8
24	84·0	82·7	81·9	81·0	80·3	80·0	79·5	79·0	79·0	78·9	78·6	78·2
25	83·9	82·8	82·0	81·5	81·2	81·0	80·0	80·0	79·5	79·0	79·0	78·6
26	83·5	82·3	82·0	80·9	80·4	80·0	80·0	79·5	79·0	78·6	78·2	78·0
27												
28	80·6	79·0	78·0	77·0	76·4	76·0	76·0	75·5	75·0	75·0	74·0	73·2
29	78·9	77·9	76·9	76·3	75·2	75·0	74·5	74·0	73·5	72·3	72·6	72·0
30	81·0	80·1	79·8	79·4	79·0	78·5	78·0	77·5	77·5	77·0	77·0	76·9

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

NOVEMBER, 1847. — Göttingen Mean Time

	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	17·620	17·590	17·800	17·300	17·350	17·550	17·850	17·850	17·550	17·360	17·230	17·280
2	18·300	18·315	18·310	18·505	18·990	19·150	18·950	18·900	18·290	18·950	17·590	17·350
3	18·070	18·110	18·620	18·750	19·050	19·700	19·850	19·240	19·250	19·105	18·600	18·400
4	19·120	19·225	19·440	19·665	19·950	20·100	20·450	20·450	20·350	20·300	20·100	20·150
5	20·160	20·500	20·390	20·475	21·125	21·300	21·350	21·250	20·975	20·250	19·550	19·670
6												
7	20·325	20·450	20·625	21·050	21·350	21·400	21·255	20·800	20·600	20·125	19·860	19·600
8	19·615	19·800	19·985	20·530	20·990	21·325	21·375	21·400	21·000	20·875	19·650	19·650
9	19·750	19·840	20·025	20·085	20·300	20·350	20·800	20·800	20·725	20·370	20·000	19·520
10	19·430	19·360	19·575	19·875	20·070	19·850	20·100	20·250	19·900	19·600	19·250	18·950
11	19·640	19·465	19·780	19·880	20·350	20·550	20·675	20·825	20·575	20·195	19·700	19·075
12	19·560	19·650	19·925	20·350	20·625	20·875	20·825	20·740	20·575	20·175	19·380	18·915
13												
14	19·150	19·650	19·600	19·640	19·920	20·175	20·400	20·600	19·775	19·150	18·750	18·650
15	19·550	19·585	19·750	20·650	20·590	20·775	20·950	20·625	20·125	19·850	19·550	18·950
16	19·125	19·115	19·280	19·340	19·070	19·775	19·950	19·765	19·550	19·400	19·090	18·880
17	19·740	19·860	20·240	20·535	21·050	21·200	20·600	20·650	20·375	19·950	19·370	19·250
18	20·150	20·170	20·225	20·320	20·660	20·725	20·700	20·400	20·150	19·990	19·240	19·170
19	18·810	18·955	19·175	19·390	19·800	20·250	20·050	19·875	19·950	19·770	19·420	19·200
20												
21	19·375	19·525	19·740	20·075	20·400	20·525	20·675	20·550	20·315	19·960	19·650	19·400
22	17·475	18·250	19·090	19·380	19·350	16·700	16·900	16·850	17·100	16·950	16·480	16·320
23	18·140	18·605	18·565	18·640	18·970	19·050	19·150	18·950	18·650	18·310	18·050	17·530
24	19·550	19·610	19·800	19·465	19·660	18·660	18·990	19·250	19·250	19·250	18·600	17·930
25	17·200	17·300	17·230	17·555	18·000	18·200	17·900	17·800	17·400	16·960	17·130	17·050
26	18·565	18·650	18·680	18·660	19·240	19·600	19·600	19·900	19·600	19·350	18·750	18·585
27												
28	20·305	20·315	20·525	20·675	20·850	21·050	21·275	21·250	21·075	20·780	20·590	20·280
29	20·990	21·035	21·375	21·240	21·450	21·575	21·525	21·390	21·100	20·910	20·500	20·165
30	19·965	19·900	20·050	20·600	20·890	20·900	20·850	20·730	20·440	19·940	19·780	19·000

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

NOVEMBER, 1847. — Göttingen Mean Time.

	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	83°6	83°3	83°0	82°8	83°0	84°0	84°5	85°3	86°2	86°2	86°0	85°6
2	82·0	81·7	81·0	80·5	81·0	82·5	84·0	85·5	86·0	86·8	86·0	85·8
3	82·5	81·9	81·3	81·4	81·8	82·9	84·1	84·5	84·0	84·0	84·0	82·0
4	78·0	77·8	77·4	77·0	76·0	76·6	76·8	76·5	76·8	76·6	76·8	76·5
5	75·7	75·2	75·0	75·0	76·6	78·0	79·0	79·9	80·0	80·5	80·5	80·0
6												
7	73·6	73·2	73·0	73·4	76·5	78·0	79·0	79·5	79·8	79·5	80·0	80·5
8	75·0	75·0	74·7	74·9	75·7	77·0	78·5	79·8	80·6	81·5	81·0	81·0
9	76·0	75·8	75·0	75·0	76·1	77·7	79·3	79·5	80·9	81·0	81·2	81·4
10	75·9	75·6	75·0	75·0	76·0	78·0	79·5	80·5	81·7	81·9	82·0	82·8
11	75·9	76·0	75·6	75·9	73·9	78·0	79·5	80·5	82·0	82·5	83·0	83·6
12	77·0	77·0	76·8	76·9	76·9	79·0	80·5	81·5	83·0	83·9	84·9	84·9
13												
14	78·6	78·0	77·8	78·0	78·8	79·0	81·2	82·3	83·2	83·2	84·8	84·9
15	78·0	77·7	77·4	77·7	82·2	79·5	80·1	82·0	83·2	84·9	84·6	85·0
16	77·7	77·4	77·0	77·3	78·1	80·0	81·5	82·5	83·5	84·0	84·8	85·1
17	77·2	76·9	77·6	76·4	77·4	78·0	80·5	82·0	83·0	83·9	84·6	85·0
18	76·2	76·0	76·0	76·0	77·0	77·9	80·2	81·2	82·2	83·4	84·2	84·8
19	77·0	76·8	76·0	76·7	77·9	79·2	80·2	81·5	82·2	83·0	84·0	84·6
20												
21	77·9	77·3	76·8	77·0	78·0	80·0	81·2	82·2	83·4	84·0	84·5	84·5
22	77·4	77·0	76·8	76·8	77·8	79·4	81·0	82·0	83·0	83·8	84·1	84·4
23	77·4	77·0	76·6	76·8	78·0	79·0	80·9	82·0	83·2	83·7	84·5	84·6
24	78·0	77·4	77·0	77·0	78·0	79·4	80·5	82·0	83·0	83·5	83·9	84·0
25	78·0	77·7	77·2	77·3	78·0	79·5	81·2	82·2	83·2	83·2	83·9	84·0
26	77·7	77·6	77·1	76·8	76·0	79·5	80·5	81·5	82·0	82·0	82·0	82·2
27												
28	73·0	73·0	72·2	71·6	73·0	75·0	76·0	77·4	78·0	78·4	78·9	79·0
29	71·9	71·0	71·0	72·0	72·4	74·5	76·4	77·5	78·8	79·7	80·8	81·0
30	76·6	76·4	76·5	76·8	78·0	79·5	80·9	82·0	83·0	84·0	84·4	84·7

DECEMBER, 1847.

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	19·090	19·140	19·470	19·400	19·400	19·480	19·325	19·600	19·276	19·470	19·420	19·080
2	19·420	19·450	19·550	19·200	19·190	18·900	19·100	18·850	18·500	18·120	18·400	18·290
3	17·880	18·150	18·500	18·170	18·600	18·000	18·275	18·440	18·550	18·810	18·900	19·215
4												
5	18·900	18·920	18·950	18·950	18·900	18·900	18·985	19·175	19·200	19·250	19·390	19·450
6	18·670	18·750	18·950	18·900	18·900	18·850	18·850	19·225	19·275	19·315	19·505	19·560
7	19·220	19·100	19·300	19·340	19·350	19·300	19·225	19·470	19·400	19·400	19·630	20·200
8	17·950	17·900	18·100	18·420	18·100	17·900	18·275	18·690	18·780	19·050	19·290	19·400
9	18·810	18·950	19·020	18·750	18·790	18·510	18·775	19·070	19·145	19·350	19·770	20·300
10	19·100	19·400	19·300	19·050	19·350	19·350	18·650	19·100	18·850	18·850	19·290	19·740
11												
12	19·910	19·750	19·740	19·550	19·660	19·640	19·440	19·775	20·425	20·400	20·420	20·650
13	20·095	19·840	19·820	19·700	19·500	20·050	19·865	19·870	19·945	19·990	20·140	20·130
14	19·220	19·310	19·400	19·350	19·660	19·770	19·650	19·750	19·940	20·115	20·120	20·200
15	20·190	20·080	19·950	19·760	19·750	19·900	19·800	20·000	20·140	20·150	20·250	20·240
16	20·280	20·210	—	20·240	20·210	20·325	20·325	20·595	20·570	20·620	20 575	20·950
17	20·840	20·120	19·700	20·550	17·000	16·200	15·375	15·125	15·600	15·870	17·320	17·400
18												
19	—	16·900	15·860	15·075	14·550	15·800	14·625	15·600	14·800	13·950	14·050	16·320
20	12·500	11·050	10·600	10·850	10·800	13·250	12·220	12·050	12·225	14·650	13·740	14·360
21	16·100	16·300	16·550	16·700	16·850	16·950	17·225	17·290	17·300	17·210	17·305	17·400
22	18·020	18·100	18·200	17·400	17·800	18·200	18·315	18·360	18·440	18·520	18·795	18·840
23	18·450	18·400	18·765	18·800	18·930	18·700	18·850	19·150	19·025	19·335	19·080	19·200
24	18·450	18·700	18·900	18·905	18·880	—	—	—	—	—	—	—
25												
26	19·320	19·350	19·450	16·550	19·650	19·460	19·270	19·375	19·960	19·800	19·785	19·850
27	19·500	19·320	19·300	19·270	19·370	19·250	19·380	19·450	19·500	19·540	19·590	19·690
28	19·260	19·200	19·400	19·470	19·480	19·350	19·500	19·625	19·650	19·590	19·630	19·660
29	19·810	19·540	19·650	19·400	19·130	18·700	18·925	18·275	19·450	18·320	18·140	18·700
30	18·845	18·880	18·980	18·980	19·000	19·000	19·050	19·050	19·080	19·040	19·150	19·275
31	18·825	18·910	19·020	18·960	19·110	19·140	19·200	19·160	19·225	19·250	19·300	19·370

DECEMBER, 1847.

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	84°5	84°0	82°9	82°3	82°0	81°2	80°2	79°5	79°5	79°0	78°8	78°5
2	84·0	83·2	83·4	82·0	81·5	81·0	80·5	80·0	80·0	79·6	79·2	79·0
3	84·0	83·2	82·0	81·0	81·0	80·5	80·0	79·5	79·5	78·6	78·0	78·0
4												
5	84·0	82·7	81·8	81·5	81·3	81·0	80·2	80·0	79·5	80·2	79·0	78·6
6	86·0	84·2	83·0	82·3	81·8	81·0	80·5	79·0	80·0	79·4	78·7	78·9
7	87·8	85·3	83·7	82·8	82·6	82·0	81·0	80·5	80·5	79·8	79·6	79·6
8	85·4	84·3	83·4	82·7	82·0	81·3	80·5	80·2	80·0	79·3	78·8	78·3
9	83·4	82·1	81·3	80·7	80·3	80·0	79·0	79·0	78·5	78·0	77·5	77·0
10	83·2	82.1	81·2	80·3	80·1	79·7	79·0	79·0	78·5	78·0	77·5	77·2
11												
12	79·4	78·2	77·4	77·1	76·7	76·0	75·0	75·0	74·5	73·4	73·0	72·9
13	81·4	80·6	79·4	79·0	78·7	78·0	78·0	77·3	77·0	73·9	76·5	76·5
14	83·0	81·5	80·4	79·4	78·8	78·5	78·0	77·0	77·0	76·3	76·0	75·8
15	83·0	81·7	80·6	80·0	79·2	78·4	78·0	77·5	77·5	76·4	76·2	76·2
16	81·0	80·2	79·4	79·0	78·7	77·2	76·5	76·5	76·0	75·8	75.4	75·0
17	81·7	80·5	79·2	78·8	78·0	77·5	76·5	76·2	76·0	75·2	75·0	74·8
18												
19	—	83·2	81·8	80·7	80·2	79·3	79·0	78·3	78·0	77·2	76·8	77·0
20	83·0	82·0	81·2	80·8	80·2	79·6	79·1	78·8	78·0	78·0	78·2	78·0
21	83·3	82·5	81·2	80·7	79·8	79·2	79·0	79·0	79·0	78·3	78·1	78·0
22	81·5	80·6	80·0	79·7	79·2	78·9	78·5	78·4	78·1	77·5	77·5	77·0
23	80·5	80·1	79·7	79·2	79·0	78·9	78·2	78·0	77·8	77·5	77·5	77·2
24	82·6	81·7	80·8	80·2	80·0	—	—	—	—	—	—	—
25												
26	82·0	80·2	79·0	78·7	78·0	77·3	77·0	77·0	76·7	76·0	76·0	75·3
27	82·0	81·7	80·8	80·2	79·7	78·8	78·6	78·5	78·4	77·4	77·4	77·0
28	83·8	82·8	81·7	81·0	80·2	79·6	79·3	79·4	79·1	78·5	78·0	78·0
29	84·2	83·0	82·3	81·8	81·0	80·5	80·0	80·0	79.9	79·4	78·8	78·4
30	84·7	83·0	81·9	81·0	80·8	80·1	79·5	79·0	79·0	78·4	78·3	77·8
31	85·3	84·0	82·9	81·0	80·5	80·2	80·0	80·0	80·0	79·6	79·5	79·0

DECEMBER, 1847.

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	19·330	19·225	19·750	20·200	20·350	20·570	20·450	20·050	19·200	19·120	20·220	18·850
2	18·650	19·000	18·910	19·020	19·100	19·850	19·925	19·650	18·900	18·830	18·395	18·120
3	19·440	19·650	19·900	19·800	20·225	20·300	20·625	20·585	20·325	19·670	20·220	19·150
4												
5	19·670	19·800	19·850	20·170	20·420	20·540	20·535	20·600	20·050	19·520	19·280	19·070
6	19·660	19·750	19·700	20·100	20·555	20·775	20·850	20·840	20·715	20·440	19·910	19·500
7	19·950	19·900	20·700	20·240	20·500	20·850	21·100	20·540	20·410	19·800	19·050	18·260
8	19·650	20·550	19·750	20·050	20·300	20·965	20·380	20·060	20·040	19·800	19·360	18·850
9	19·900	19·990	20·100	20·450	20·675	20·560	20·730	20·600	20·165	19·870	19·650	19·300
10	19·750	19·650	19·750	19·600	19·900	20·495	20·160	20·065	19·850	19·700	19·550	19·080
11												
12	20·680	20·800	20·950	21·150	21·450	21·380	21·500	21·230	20·995	20·700	20·520	20·350
13	20·675	20·000	20·345	20·800	20·950	21·040	21·145	20·810	20·500	20·110	20·090	19·670
14	20·250	20·290	20·950	21·750	21·110	21·285	21·320	21·110	21·050	20·520	20·040	20·470
15	20·250	20·450	20·600	20·800	21·110	21·065	20·900	20·550	20·335	20·140	20·190	20·300
16	20·860	21·100	21·050	21·290	21·520	21·425	21·500	21·575	21·105	20·380	19·600	19·320
17	17·800	17·750	19·150	19·650	18·900	20·275	19·700	19·160	19·025	18·760	19·060	18·150
18												
19	16·990	16·950	17·250	16·550	17·390	17·855	17·150	17·350	17·350	15·130	14·090	12·400
20	15·020	15·600	15·400	15·250	15·350	15·300	15·750	16·060	16·110	16·140	16·130	16·215
21	17·520	17·600	17·760	17·800	18·250	18·550	18·725	18·750	15·750	18·400	18·000	17·940
22	18·650	19·200	19·230	19·400	19·820	20·180	20·705	21·170	20·760	20·247	19·630	18·820
23	19·170	19·090	19·240	19·350	19·900	20·110	20·365	20·490	20·170	19·660	18·990	18·460
24												
25												
26	19·550	20·000	20·025	20·350	20·830	21·050	21·250	21·375	21·140	20·550	20·090	19·750
27	19·790	19·850	19·950	19·940	20·235	20·370	20·510	20·460	20·610	20·220	19·770	19·460
28	19·750	19·950	20·050	20·350	20·590	20·910	20·900	20·910	20·855	20·260	20·070	20·150
29	18·820	18·950	19·450	19·790	20·100	20·260	20·240	20·070	19·975	19·430	19·010	18·890
30	19·440	19·550	19·550	19·750	20·070	20·010	20·125	20·075	19·650	19·200	18·970	18·730
31	19·520	19·660	19·790	19·805	20·140	20·190	20·210	19·875	19·670	19·630	19·380	19·300

DECEMBER, 1847.

THERMOMETER OF LARGE HORIZONTAL FORCE MAGNETOMETER.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	77·6	78·0	78·0	78·0	78·0	80·5	81·5	82·5	84·0	84·2	84·9	84·6
2	78·6	78·3	78·0	78·0	79·0	80·5	82·0	83·0	84·0	84·9	85·0	84·8
3	77·8	78·0	78·0	78·0	79·0	81·0	82·5	83·5	84·9	85·2	85·3	85·0
4												
5	78·2	78·1	78·0	78·0	78·2	81·0	82·2	83·3	84·6	85·5	86·2	87·0
6	78·3	78·2	77·5	78·1	79·7	81·0	82·0	83·6	84·8	85·3	86·1	86·6
7	78·9	78·8	78·5	78·7	79·6	81·0	82·2	83·5	84·9	85·4	86·0	86·3
8	78·0	78·0	77·4	77·3	78·0	79·5	81·2	82·0	83·0	83·9	84·4	64·0
9	76·8	77·0	77·0	76·7	77·8	79·3	80·5	82·0	82·5	83·0	83·5	83·8
10	76·7	76·7	76·3	76·1	77·6	78·8	80·0	81·0	81·5	81·7	81·9	82·0
11												
12	72·7	72·6	71·8	72·5	74·6	76·5	78·5	80·0	81·0	81·9	82·0	82·0
13	76·2	76·4	76·2	76·0	77·0	78·5	80·0	81·4	82·6	83·0	83·5	83·6
14	75·8	76·0	75·6	75·1	76·2	78·0	79·5	80·8	81·4	82·0	82·8	83·2
15	76·0	76·0	75·8	75·3	76·2	77·4	79·0	80·0	81·0	81·0	81·5	81·5
16	74·7	74·4	74·0	74·0	75·0	76·1	77·2	78·5	80·0	81·0	81·5	81·9
17	74·0	74·0	73·8	74·0	75·0	76·2	78·0	79·4	80·5	81·2	82·2	83·0
18												
19	76·6	76·7	76·4	76·0	77·6	79·0	80·4	81·5	82·0	82·4	82·8	83·0
20	77·9	77·9	77·7	77·7	79·0	80·2	81·3	81·9	82·5	82·9	83·0	83·4
21	77·9	78·0	78·0	77·2	77·8	78·5	80·0	81·5	82·0	82·0	82·0	82·0
22	77·0	77·0	76·7	76·7	78·0	79·0	79·9	—	80·1	80·5	80·9	81·0
23	77·0	77·2	77·0	76·8	77·6	79·3	81·0	81·6	82·0	82·0	82·4	82·6
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	75·0	75·4	75·0	75·0	76·0	77·5	79·0	80·0	81·5	82·5	82·9	83·1
27	77·0	77·0	77·0	76·2	77·6	79·0	80·8	82·0	82·5	82·8	83·6	83·9
28	77·5	77·0	76·8	76·0	—	79·5	81·1	82·8	84·0	84·6	84·9	85·0
29	78·0	77·9	77·5	77·7	78·6	79·8	81·7	82·3	83·4	85·0	85·4	85·0
30	77·4	77·8	77·7	77·4	77·0	80·0	81·7	83·0	84·6	85·1	86·0	86·2
31	78·6	78·5	78·0	78·2	79·4	80·6	82·5	84·0	84·6	85·0	85·4	84·6

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
JANUARY, 1847. 1	9·400	9·730	10·000	9·540	9·800	10·210	10·350	10·700	10·920	10·600	9·800	8·510
2												
3	9·220	9·340	9·200	9·500	9·715	9·700	9·810	10·100	10·400	10·480	9·610	9·130
4	9·200	9·490	9·290	8·710	9·880	9·410	9·620	9·800	10·300	10·200	9·590	9·350
5	9·500	9·650	9·900	10·000	10·050	10·100	10·100	10·480	10·650	10·520	10·250	9·900
6	9·500	9·440	9·700	9·900	10·200	10·190	10·160	10·260	10·050	10·250	9·550	8·720
7	9·650	9·810	9·710	10·000	10·300	10·310	10·420	10·350	10·250	10·120	9·540	9·700
8	9·760	9·750	9·800	10·100	10·100	10·230	10·310	10·590	11·110	11·850	11·000	9·900
9												
10	9·490	9·740	9·300	9·100	10·500	9·950	9·700	9·950	10·300	10·590	9·800	8·920
11	9·150	9·530	9·180	9·355	9·600	9·920	9·980	10·250	10·450	10·500	10·080	9·650
12	9·400	8·730	9·100	9·700	9·710	9·900	10·020	10·050	9·890	10·100	9·540	8·700
13	8·780	9·090	9·540	9·600	9·900	9·800	9·990	10·110	10·410	10·300	9·315	9·380
14	9·100	9·480	9·510	9·500	9·825	10·100	10·220	10·400	10·400	10·520	9·890	9·180
15	9·120	9·320	9·500	9·800	9·700	9·790	9·820	10·030	10·000	9·605	9·125	9·090
16												
17	9·290	9·390	9·500	9·650	9·450	9·600	10·100	10·480	10·390	10·500	9·700	9·280
18	9·100	9·520	9·600	9·690	9·650	9·400	9·740	10·000	10·580	10·550	9·450	9·100
19	8·900	9·500	9·200	9·540	9·505	9·880	9·990	10·320	10·690	10·880	9·820	9·000
20	8·600	9·180	9·120	9·100	9·370	9·310	9·630	9·710	10·010	10·070	9·300	8·600
21	8·320	8·680	9·000	8·400	9·000	9·210	9·080	9·300	9·800	9·700	9·410	8·760
22	8·600	8·590	8·800	8·990	9·200	9·620	9·400	9·600	9·800	9·830	8·690	8·300
23												
24	8·640	8·710	8·880	9·200	9·750	9·780	9·840	10·000	10·380	10·460	10·200	9·580
25	9·000	9·100	9·100	9·190	9·300	9·390	9·480	9·500	9·500	9·550	9·050	8·830
26	9·720	9·700	9·920	9·800	9·710	9·470	9·450	9·700	10·120	10·340	10·050	9·600
27	9·000	8·880	9·060	9·100	8·900	9·220	9·000	9·220	9·880	9·410	9·210	8·990
28	8·720	8·700	8·780	9·000	9·050	9·120	9·030	8·880	8·790	8·950	8·500	7·700
29	7·740	7·200	7·170	7·400	7·150	7·500	7·650	8·000	8·310	8·250	7·900	7·690
30												
31	5·920	6·190	6·900	6·390	6·290	5·600	6·120	6·580	6·980	6·900	6·450	6·200

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
JANUARY, 1847. 1	81°7	81°0	77°8	76°0	75°2	74°8	74°5	73°0	72°8	76°0	79°4	81°2
2												
3	81·2	79·3	77·4	76·0	76·0	75·0	74·4	71·4	73·2	73·4	78·4	80·8
4	81·0	79·3	78·0	76·4	76·6	76·0	74·8	74·0	73·8	75·6	78·0	81·6
5	81·0	79·5	78·0	76·4	75·2	76·1	74·9	73·0	73·4	75·2	78·0	79·6
6	80·0	78·2	77·4	76·0	75·2	74·5	74·0	73·4	73·2	75·0	77·2	80·4
7	79·7	78·0	77·2	76·0	75·0	74·0	73·6	72·0	71·3	75·6	80·8	81·2
8	80·2	78·2	77·8	76·0	75·2	74·4	73·0	72·0	71·8	74·0	78·0	80·0
9												
10	80·6	79·2	78·0	76·0	75·2	76·0	73·0	71·0	71·6	73·4	78·0	80·4
11	80·0	79·4	77·5	75·8	74·8	72·8	71·0	71·3	71·0	73·0	76·0	79·0
12	79·8	78·0	77·2	75·8	74·0	72·4	71·0	70·0	70·0	72·0	75·6	78·8
13	79·2	79·4	78·0	76·6	74·4	73·0	71·6	71·0	71·2	72·8	76·4	79·6
14	80·5	79·2	77·4	76·0	75·8	75·0	74·3	73·4	72·2	74·0	78·0	80·0
15	81·6	80·2	79·2	78·0	76·8	75·6	74·5	72·8	73·2	76·0	79·2	81·6
16												
17	79·8	79·6	78·0	77·0	76·0	76·0	74·6	73·4	73·6	75·8	79·0	82·0
18	82·0	80·0	79·0	77·0	76·0	74·8	74·8	74·0	73·6	76·0	79·6	81·8
19	83·0	81·2	79·5	78·4	77·8	76·1	75·2	74·0	74·0	76·0	80·2	82·8
20	83·4	81·8	79·8	78·0	77·0	76·0	75·2	74·0	74·0	76·0	80·0	82·0
21	82·6	80·8	79·2	77·7	77·0	76·0	74·8	74·0	73·6	75·8	79·3	81·9
22	82·0	80·0	78·8	77·5	77·0	75·6	74·5	74·0	74·0	76·5	79·8	82·4
23												
24	82·0	81·5	80·7	80·0	78·2	77·2	77·0	76·0	75·6	76·2	80·0	81·6
25	81·8	80·0	79·4	78·2	78·0	77·2	76·6	76·2	76·8	79·2	81·6	82·0
26	78·0	77·4	74·0	74·0	74·0	72·6	72·0	70·0	68·2	71·8	74·0	74·6
27	73·8	72·0	71·8	70·0	68·0	66·8	65·6	66·0	66·9	69·8	73·0	74·0
28	74·4	72·8	71·7	70·0	68·2	68·4	66·2	66·2	66·2	68·0	72·0	74·6
29	75·8	74·2	73·6	73·0	72·2	72·0	70·8	68·8	67·8	70·0	72·0	72·5
30												
31	72·6	71·3	70·0	67·6	66·2	66·0	65·6	65·2	64·2	68·0	72·0	74·0

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

FEBRUARY, 1847. Göttingen Mean Time.

	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	6·300	6·900	7·550	7·300	7·400	7·600	7·820	8·010	8·350	8·550	8·460	7·520
2	6·750	6·900	7·150	7·250	7·550	7·480	7·575	7·710	7·750	7·790	7·550	6·615
3	6·300	6·550	6·580	6·950	6·700	6·890	6 980	7·130	7·260	7·400	6·950	6·010
4	6·270	6·450	6·750	6·900	7·080	7·110	7·000	6·650	6·700	6·780	6·400	6·250
5	6·260	6·790	6·900	7·200	7·220	7·520	7·720	8·010	8·400	8·450	8·120	6·300
6												
7	7·000	7·040	6·700	6·300	6·600	7·100	7·180	7·370	7·340	7·690	7·450	7·000
8	6·840	6·510	6·600	6·600	6·400	7·030	6·700	6·770	6·940	6·850	6·870	6·480
9	6·290	6·355	6·450	6·450	6·800	6·700	7·040	7·180	7·350	7·700	6·920	6·700
10	6·170	6·640	6·870	7·050	7·000	7·200	7·300	7·405	7·600	7·350	7·400	6·980
11	6·530	6·600	6·800	6·900	7·200	7·480	7·720	7·730	7·760	7·880	7·550	6·920
12	6·640	6·700	6·600	6·800	6·800	7·080	7·280	7·510	7·600	7·825	7·350	6·960
13												
14	7·180	7·100	6·360	6·490	6·790	6·800	7·000	7·400	7·980	8·070	7·500	7·460
15	—	6·660	6·640	6·700	6 800	7·210	7·170	7·220	7·620	7·250	7·150	5·950
16	5·910	6·260	6·430	6·500	6·500	6·440	6·700	6·690	6·790	7·200	7·500	6·420
17	6·170	6·210	6·080	6·200	6·600	6·400	6·780	7·000	6·730	7·250	7·150	7·000
18	5·980	5·520	5·840	6 205	6·600	6·400	6·640	6·490	6·930	6·390	6·550	6·130
19	5·600	6·040	6·110	6·305	6·550	6·620	6·790	6·900	7·010	7·400	7·315	6·620
20												
21	6·310	6·780	6·880	6·810	6·800	6·920	7·010	7·390	7·310	7·290	5·995	5·500
22	4·600	3·980	3·860	5·250	5·700	5·810	5·600	5·700	4·980	5·100	5·350	5·280
23	5·010	5·200	5·400	5 200	5·450	6·020	5·990	6·120	6·210	6·700	7·095	6·790
24	4·900	4·400	4·700	5·300	6·800	6·100	6·180	6·120	5·980	6·090	5·850	5·300
25	5·100	5·700	6·110	5·400	5·800	5·990	6·410	6·500	6·540	6·550	5·665	5·000
26	4·650	5·300	5·800	5·700	6·350	6·260	6·530	6·590	6·600	6·700	6·600	5·970
27												
28	5·470	5·700	5·820	5·900	5·810	6·400	6·210	6·490	6·320	6·600	6·405	6·920

THERMOMETER OF SMALL HORIZONTAL FORCE.

FEBRUARY, 1847. Göttingen Mean Time.

	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	73°8	73°8	73°6	71°2	69°4	67°0	64°8	62°6	62°6	65°0	68°0	70°0
2	70·0	67·7	65·6	64·0	60·8	59·0	56·8	54·4	55·6	59·8	64·4	68·0
3	70·0	68·0	67·2	65·0	64·4	64·8	63·4	62·6	64·1	68·0	73·0	77·8
4	76·8	74·4	72·6	71·2	71·0	70·8	70·8	71·5	72·0	76·0	80·0	81·2
5	80·2	80·0	78·8	77·0	76·0	74·8	74·3	73·8	74·0	75·9	79·0	80·5
6												
7	77·4	76·0	74·2	74·0	73·0	72·0	71·6	71·0	71·8	73·8	76·0	76·6
8	76·0	74·3	74·0	73·2	72·2	72·5	72·2	71·6	71·4	73·4	76·0	76·8
9	77·2	76·0	74·6	74·0	73·8	73·0	72·8	72·0	72·1	74·0	78·0	79·8
10	80·0	79·6	77·5	76·6	75·2	74·6	74·0	73·0	73·4	76·0	79·8	80·6
11	80·6	80·5	79·4	78·6	77·4	76·0	75·2	74·0	75·6	77·5	80·0	81·6
12	80·4	80·0	78·0	77·0	76·2	75·6	74·8	74·0	74·4	76·0	78·0	78·0
13												
14	75·6	74·4	72·8	73·0	72·0	71·9	71·0	70·0	69·9	72·1	75·8	77·5
15		75·6	74·0	72·0	72·0	70·8	69·7	68·0	68·0	72·4	77·4	78·0
16	77·8	76·0	75·2	74·4	74·0	72 6	72·0	70·0	72·9	76·2	79·6	81·0
17	80·2	78·2	77·0	76·0	75·2	75·0	76·3	73·7	74·0	76·2	80·0	82·0
18	82.3	81·8	80·0	77·0	76·0	75·0	74·0	72·0	73·8	75·9	78·0	78·3
19	78·0	76·2	74·0	73·8	72·2	72·0	71·2	70·6	71·0	72·6	76·0	77·3
20												
21	79·4	78·0	76·4	75·6	75·0	75·0	74·0	73·6	73·6	75·6	80·0	83·8
22	83·8	81·8	79·9	79·8	78·0	76·7	76·0	74·7	75·0	76·6	80·0	81·7
23	81·5	79·2	77·6	77·0	76·0	75·0	74·0	72·2	73·8	76·0	78·0	79·8
24	78·3	77·8	76·0	74·8	74·0	72·3	71·0	70·5	71·4	75·2	77·6	78·5
25	78·1	77·0	75·9	75·0	74·2	74·0	72·1	71·6	71·9	74·0	77·0	78·2
26	78·0	76·3	75·4	74·2	74·0	73·7	72·0	71·4	72·2	75·0	77·8	79·0
27												
28	80·0	78·7	77·6	76·4	76·0	76·0	75·2	74·0	74·2	76·4	80·0	81·6

MARCH, 1847.

SMALL HORIZONTAL FORCE MAGNETOMETER (in scale readings).

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	6·600	6·350	3·900	3·460	3·180	4·000	4·430	4·630	4·960	5·000	5·155	4·550
2	4·600	5·100	5·400	5·460	5·500	5·390	5·520	5·500	5·590	5·500	5·550	5·300
3	5·200	5·700	5·800	5·700	5·660	5·620	5·800	6 020	6·280	6·350	6·200	5·620
4	5·150	5·590	5·500	4·925	4·760	5·000	5·880	5·590	5·700	5·770	5·300	5·030
5	5·050	5·100	5·180	5·250	5·940	5·390	5·480	5·820	6·100	6·000	6·050	5·280
6												
7	4·000	4·900	4·810	5·200	5·450	5·800	5·820	5·820	5·800	6·020	5·350	4·710
8	4·420	4·890	4·690	4·700	5·100	5·440	5·800	5·880	5·900	5·650	5·850	4·590
9	4·200	3·990	4·500	4·510	5·000	5·300	5·500	5·650	5·780	6·210	6·460	5·880
10	5·230	5·190	5·330	5·500	5·160	5·320	5·300	5·200	5·420	5·800	5·600	5·220
11	4·720	5·080	5·080	5·100	5·400	5·550	5·780	5·880	5·800	6·000	5·910	5·520
12	5·350	5·650	5·810	5·800	5·850	6·000	5·990	6·300	6·260	6·250	5·700	5·380
13												
14	4·890	4·520	4·100	4·575	4·740	4·690	5·000	5·190	5·050	5·800	5·505	5·000
15	3·980	3·930	4·290	4·100	4·200	4·810	4·700	4·800	4·620	4·650	4·100	3·940
16	3·960	4·200	4·300	4·050	4·400	4·750	4·580	4·540	4·900	5·500	5·150	4·700
17	4·510	5·100	5·000	5·200	5·600	5·720	5·690	5·810	6·260	6·560	6·000	5·450
18	5·000	4·960	5·100	4·700	5·000	5·280	5·420	5·400	5·800	6.000	5·400	3·850
19	3·410	1·190	2·470	1·350	1·100	2·400	3·290	2·800	1·600	1·350	2·630	3·200
20												
21	3·260	3·090	2·810	2·910	3 190	3·350	3·000	3·020	3·200	4·300	4·640	4·480
22	3·880	4·060	3·800	3·990	4·100	4·150	4·100	4·000	4·260	4·380	4·200	3·200
23	2·890	3·180	3·200	3·600	3·710	4·050	4·000	4·000	3·800	3·250	3·730	3·380
24	3·200	2·290	3·200	3·640	3·620	4·130	4·200	4·100	3·710	3·806	3·350	3·690
25	3·420	3·500	3·460	3·350	3·500	3·100	3·480	3·790	3·990	4·070	3·600	2·840
26	2·490	2·880	3·000	3·300	3·700	3·780	3·860	4·200	4·700	4·950	4·200	3·620
27												
28	3·410	3·270	3·410	3·600	3·750	3·800	3·800	3·810	4·220	4·700	4·265	3·310
29	3·000	3·200	3·200	3·390	3·590	3·620	3·620	4·000	4·330	4·800	4·700	3·480
30	2·790	3·110	3·210	3·400	3·610	3·750	3·600	3·780	4·050	4·590	4·540	4.000
31	3·600	3·650	3·600	3·650	3·600	3·780	3·960	4·200	4·210	4·800	4·375	3·880

MARCH, 1847.

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	81°8	80°0	79°0	78°2	77°4	76°8	76°0	75°2	76°0	79°0	81°6	82°7
2	82·4	81·8	80·0	79·0	78·0	77·0	76·0	74·0	75·0	78·1	81·2	82·6
3	82·0	80·0	79·6	78·4	78·0	77·1	76·4	75·0	76·4	79·2	82·0	83·4
4	83·3	82·0	80·0	80·0	79·0	77·6	76·8	74·2	76·0	78·2	82·0	82·8
5	82·4	81·8	80·4	79·6	78·2	77·0	76·5	75·6	76·1	79·8	82·0	83·2
6												
7	82·0	80·4	79·2	78·6	77·8	77·0	76·4	74·2	75·8	79·3	80·8	81·6
8	81·8	79·9	78·7	78·0	77·4	76·9	76·0	75·2	76·0	79·6	81·4	82·0
9	81·6	80·0	78·7	78·0	77·0	76·3	75·6	74·0	74·8	77·8	79·2	79·6
10	78·3	76·4	76·2	76·0	75·8	75 2	75·0	74·7	75·2	77·0	78·4	79·3
11	79·2	77·9	76·4	76·0	75·2	74·0	73·2	72·0	74·0	76·3	79·6	80·5
12	80·0	78·0	77·4	77·0	76·0	75·2	75·0	74·0	75·6	78·0	80·8	82·4
13												
14	84·2	83·0	81·8	81·0	80·2	79·6	80·8	78·2	78·0	77·9	83·0	84·0
15	84·4	85·8	84·0	82·4	80·8	80·2	78·7	77·4	79·0	82·2	86·0	88·1
16	87·5	84·5	83·4	82·2	82·0	81·2	80·0	78·0	78·1	80·2	82·4	84·1
17	84·0	82·2	82·0	81·2	80·0	80·0	80·0	79·4	79·0	80·6	83·0	83·8
18	83·0	81·7	80·4	80·0	79·6	79·2	79·0	77·6	78·0	79·8	82·0	83·2
19	82·3	80·3	79·7	79·2	78·8	78·5	78·0	77·8	78·2	81·6	83·8	83·6
20												
21	82·0	81·0	80·4	80·0	80·0	79·2	78·8	77·8	78·0	79·5	81·5	80·6
22	81·6	80·4	80·8	80·0	79·2	78·5	78·0	77·0	79·2	82·0	84·5	86·0
23	86·6	84·0	83·1	83·0	81·2	79·6	78·4	78.2	80·0	82·4	84·0	84·2
24	84·0	83·6	82·4	81·8	80·6	79·6	78·8	78·0	78·0	80·6	84·0	86·0
25	85·6	83·8	82·2	81·0	80·0	78·5	78·0	77·8	78·4	80·3	84·0	85·2
26	84·4	83·6	82·0	80·8	80·0	79·2	78·5	78·0	78·0	80·0	83·0	84·5
27												
28	84·0	83·4	81·8	80·6	80·0	78·8	78·0	77·8	78·4	80·4	83·4	84·5
29	84·0	82·3	82·0	80·4	79·8	78·8	78·6	77·3	78·4	80·6	83·0	84·0
30	84·4	82·8	81·0	80·4	80·0	79·3	78·4	77·9	79·8	82·2	84·2	86·0
31	84·2	83·8	82·6	82·0	81·0	80·0	79·2	78·8	81·0	83·2	85·4	86·0

APRIL, 1847.

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	2·980	2·890	3·380	3·550	3·655	3·800	4·000	4·100	4·420	5·080	4·750	4·000
2	3·100	3·420	3·600	3·900	3·750	3·700	3·980	3·780	4·300	5·350	4·650	4·410
3												
4	2·020	2·100	2·330	2·850	2·840	3·300	3·100	2·780	2·400	3·120	3·240	2·590
5	2·220	2·050	2·295	2·400	2·990	2·900	3·110	3·100	3·600	4·000	—	—
6												
7	34·800	36·090	36·420	36·000	36·700	37·040	36·300	35·400	34·600	34·150	32·500	33·200
8	33·840	34·300	34·590	34·900	35·500	35·550	36·180	35·810	36·100	36·380	35·900	35·650
9	35·260	35·320	35·690	36·060	36·725	36·380	36·640	36·480	36·980	37·100	36·550	36·160
10												
11	36·530	36·610	36·690	36·850	36·715	36·800	36·800	36·820	37·130	38·020	37·700	36·920
12	36·790	36·950	36·900	37·450	37·600	37·900	37·040	37·100	38·100	38·600	37·800	36·960
13	36·625	36·800	36·730	36·700	36·900	36·690	36·930	36·900	37·230	37·480	36·900	36·100
14	36·440	36·620	36·280	36·100	36·200	36·130	36·790	36·700	36·400	36·700	36·800	36·300
15	35·930	36·280	36·200	36·300	36·400	36·400	36·580	36·760	37·120	37·650	36·800	36·040
16	36·220	36·350	36·480	37·500	36·450	36·600	36·680	36·900	36·640	36·600	36·360	36·550
17												
18	35·050	35·100	35·050	35·200	35·450	35·690	35·800	35·930	36·630	37·280	36·350	36·200
19	35·900	36·000	35·990	35·300	35·950	37·100	37·130	37·280	38·680	39·350	36·200	38·000
20	32·200	31·850	32·470	33·150	33·600	34·520	34·900	35·380	36·200	36·450	35·800	35·800
21	33·900	31·300	32·180	33·800	33·800	34·250	35·000	34·940	35·190	35·500	35·200	34·900
22	35·130	35·000	35·100	35·300	36·000	35·420	35·400	35·490	35·870	35·800	35·600	35·200
23	35·130	35·080	35·200	35·300	35·650	35·480	35·580	35·720	36·220	36·600	36·250	35·400
24												
25	35·530	35·505	35·600	35·800	35·775	35·820	35·900	36·080	36·200	36·300	36·050	35·900
26	35·680	35·440	35·670	35·650	35·800	35·900	35·720	36·120	35·100	35·950	35·700	34·975
27	35·160	35·330	35·070	35·300	35·200	35·400	35·600	35·820	35·830	35·900	35·550	35·000
28	35·150	34·660	35·400	35·200	35·650	35·550	36·000	36·100	36·020	36·600	35·200	34·350
29	34·800	35·090	35·100	35·200	35·350	35·920	36·000	35·000	35·040	35·400	34·850	33·650
30	32·650	33·300	33·900	34·200	34·400	34·900	35·100	35·400	35·000	34·750	34·450	34·170

APRIL, 1847.

THERMOMETER OF SMALL HORIZONTAL FORCE

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	86°0	84°0	82°1	81°6	80°2	80°0	79°0	78°0	79°8	81°9	84°0	84°0
2	83·6	81·7	80·4	80·0	79·4	78·0	77·2	77·0	78·0	80·0	82·0	82·8
3												
4	83·9	82·0	81·0	80·0	79·8	78·4	76·8	76·0	77·8	81·8	84·6	85·8
5	86·6	83·7	82·5	82·0	81·0	80·1	79·4	78·7	80·0	83·0	—	—
6												
7	86·3	85·6	83·4	82·6	82·0	80·8	80·6	80·3	81·5	82·0	84·6	86·4
8	86·0	85·0	83·4	83·0	82·0	80·6	79·6	79·7	80·2	83·7	85·4	86·0
9	86·0	84·0	84·0	83·0	82·0	80·6	80·0	79·2	81·0	82·8	85·2	86·0
10												
11	85·8	84·0	82·8	82·0	80·8	80·4	79·4	79·6	80·4	83·7	86·0	86·5
12	85·8	83·8	82·5	82·0	81·0	80·6	80·0	79·5	81·0	83·0	85·0	86·0
13	86·0	83·9	82·3	81·6	80·4	80·3	79·0	78·2	80·0	82·3	84·4	85·6
14	84·4	82·3	82·0	81·4	80·6	80·0	79·3	78·3	80·0	84·0	84·8	85·0
15	84·6	83·4	82·0	82·0	82·0	81·2	80·5	80·0	81·6	83·7	86·0	86·5
16	85·8	84·1	83·7	82·6	83·0	82·5	81·6	81·0	82·4	85·0	88·0	87·6
17												
18	88·3	87·0	85·4	82·2	83·6	82·8	82·0	80·3	81·6	82·1	85·8	84·0
19	83·5	81·3	81·1	80·0	79·0	78·4	78·4	78·4	79·4	79·6	8·08	83·0
20	83·4	83·3	82·7	82·0	81·6	81·1	80·7	80·1	81·5	82·4	84·6	86·4
21	85·8	84·0	84·0	83·2	82·4	82·0	81·4	81·4	83·0	84·2	86·0	86·0
22	85·6	84·4	84·0	83·4	82·8	82·3	82·0	81·7	81·8	83·7	85·6	86·4
23	86·0	85·5	84·0	83·2	82·0	81·6	80·8	81·0	82·0	84·0	85·2	86·4
24												
25	86·0	85·0	84·0	83·4	82·8	82·4	82·2	81·6	82·3	85·7	87·0	87·6
26	86·3	85·6	84·0	83·2	83·0	82·4	82·4	80·0	81·8	84·0	86·0	86·4
27	86·0	84·0	82·4	82·0	81·0	80·8	80·5	79·8	81·6	83·7	86·6	87·6
28	85·8	84·0	82·7	82·0	81·2	80·5	80·4	79·6	81·5	84·0	86·0	86·4
29	86·0	84·0	82·7	82·0	81·6	80·8	80·5	80·0	81·7	83·8	86·0	86·8
30	86·0	84·0	83·4	82·4	82·0	80·8	80·0	79·2	81·2	84·2	87·2	86·8

* Instrument undergoing adjustment.

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.		Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MAY, 1847.	1												
	2	34·490	34·680	34·700	34·750	34·840	35·000	35·060	35·300	34·920	35·400	35·350	34·600
	3	34·000	33·970	34·350	34·500	34·600	34·960	34·920	35·120	35·140	35·350	35·115	34·690
	4	34·350	34·500	34·510	34·600	35·000	34·920	35·120	35·300	35·500	36·040	35·850	35·100
	5	34·700	34·640	34·800	34·850	34·950	34·910	35·020	35·210	35·500	36·015	35·650	34·990
	6	34·690	34·400	34·500	34·700	34·700	34·890	34·980	34·980	35·250	35·740	35·300	34·820
	7	34·330	34·700	34·700	34·700	34·700	35·100	35·380	35·170	35·370	35·850	31·610	29·700
	8	29·990	30·200	31·100	32·350	32·750	32·980	33·100	33·530	34·050	34·500	34·450	33·900
	9												
	10	32·900	33·400	33·610	33·825	34·000	34·000	34·000	34·110	34·730	34·725	34·250	33·590
	11	33·250	33·800	33·760	33·750	33·900	33·900	34·000	34·100	34·550	34·900	34·150	33·420
	12	33·260	33·520	33·770	33·700	33·700	33·700	33·900	34·220	34·490	34·700	34·150	33·350
	13	33·060	33·500	33·720	33·900	34·000	34·000	33·920	34·150	34·650	34·990	34·400	33·870
	14	33·520	33·640	33·750	33·900	34·300	34·200	34·400	34·580	35·100	35·150	34·650	33·590
	15	32·660	32·820	34·305	32·000	32·150	33·590	32·960	33·120	33·440	33·450	30·905	28·500
	16	27·790	28·300	30·500	30·500	31·600	31·700	31·700	32·340	32·900	33·490	33·250	32·880
	17												
	18	32·300	32·310	32·580	33·190	32·950	33·000	33·180	33·060	33·330	34·200	33·600	33·250
	19	32·850	32·950	33·300	33·300	33·310	33·280	33·390	33·400	33·540	33·890	33·450	33·040
	20	32·750	32·800	32·980	33·200	33·210	33·100	33·100	33·200	33·390	33·300	32·800	32·600
	21	32·540	32·640	32·750	33·000	33·300	33·100	33·200	33·200	33·120	33·450	33·200	33·010
	22												
	23	32·840	32·720	32·820	33·000	33·100	33·100	33 200	33·370	33·720	33·970	33·850	33·300
	24	32·740	32·650	32·890	33·100	33·200	33·300	33·300	33·200	33·050	33·500	33·550	33·200
	25	33·000	32·910	32·930	33·000	33·000	32·930	33·180	33·600	32·940	33·560	33·400	32·860
	26	32·700	32·500	32·420	32·580	32·700	33·050	33·120	33·490	33·990	34·750	34·360	33·550
	27	33·100	33·090	33·100	33·500	33·900	33·160	32·930	33·150	33·120	33·270	32·850	32·090
	28	32·020	32·140	32·460	32·700	33·200	33·320	33·200	33·530	33·820	35·250	33·250	32·160
	29												
	30	32·210	32·390	32·540	32·650	32·900	32·700	32·790	33·100	33·600	34·170	34·150	33·380
	31	32·700	32·540	32·650	32·500	32·600	33·000	33·050	33·060	33·420	33·400	33·100	33·390

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.		Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MAY, 1847.	1												
	2	86°6	85°2	84°0	83°2	82°0	81°4	80°4	79°8	81°8	84°0	86°8	88°0
	3	87·8	86·0	85·0	83·8	82·2	82·0	80·8	80·0	82·0	83·6	86·2	87·4
	4	86·6	84·5	83·6	82·8	82·0	81·1	80·5	79·8	81·9	84·0	86·4	87·4
	5	86·3	85·6	83·6	82·8	82·0	80·8	80·6	80·0	81·6	83·8	86·0	87·0
	6	86·6	85·2	84·0	82·6	82·0	81·2	80·8	80·2	81·8	94·0	86·4	87·6
	7	86·3	85·7	84·0	83·0	82·2	82·0	81·6	81·8	83·0	85·0	87·0	88·4
	8	88·0	86·1	84·5	83·4	82·2	82·2	81·2	81·0	83·2	85·0	87·0	87·4
	9												
	10	87·7	86·2	85·2	84·0	83·2	82·7	82·5	82·0	83·6	86·0	88·0	89·1
	11	88·8	86·4	85·4	84·6	84·0	83·6	82·5	81·8	82·4	85·6	87·4	88·4
	12	87·6	85·8	84·0	83·6	83·0	82·3	81·1	80·5	82·5	84·2	86·4	87·4
	13	87·6	85·6	84·0	83·0	82·0	81·6	80·6	80·0	82·0	84·8	86·0	86·8
	14	85·9	84·0	83·0	82·0	82·0	81·6	81·0	82·0	82·2	84·2	86·2	87·4
	15	86·8	84·8	83·0	82·4	82·0	82·0	81·6	81·6	83·4	85·6	87·2	88·0
	16	88·0	86·0	84·0	83·4	82·2	82·2	81·5	81·6	82·4	85·7	87·2	88·5
	17												
	18	87·0	86·0	85·0	83·4	82·8	82·8	82·4	82·0	82·3	83·7	84·2	86·1
	19	86·1	84·3	83·8	83·8	83·2	83·0	82·5	82·6	83·6	85·8	87·4	87·0
	20	86·8	85·2	83·9	83·2	82·6	82·6	82·0	82·0	82·2	84·4	86·0	88·5
	21	87·8	85·7	85·2	84·0	84·0	84·0	83·6	83·2	83·2	87·0	89·8	89·2
	22												
	23	88·4	87·6	86·0	85·2	84·0	84·0	84·0	83·7	84·0	85·9	88·0	89·6
	24	99·5	87·9	86·8	86·0	85·2	84·6	84·0	83·6	84·8	86·2	88·0	88·8
	25	87·6	86·3	86·0	85·4	84·2	84·0	83·6	82·0	83·7	84·2	86·0	86·5
	26	85·9	84·3	84·6	84·0	83·2	82·6	82·0	81·8	82·7	83·0	84·0	85·6
	27	85·8	85·0	84·2	83·0	82·0	82·0	80·5	80·0	81·8	84·1	86·0	87·0
	28	86·0	84·0	84·0	82·6	81·6	80·5	80·0	80·0	81·2	82·0	84·0	83·2
	29												
	30	84·0	83·6	83·2	82·8	82·0	82·5	82·0	81·7	82·1	84·1	85·8	86·0
	31	85·8	84·3	84·2	84·0	83·2	83·0	82·5	82·4	83·8	86·8	87·6	86·5

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

JUNE, 1847.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	32·590	32·720	32·750	32·810	32·540	32·100	32·950	32·650	32·850	33·040	33·090	33·320
2	32·940	33·000	32·990	32·880	32·970	32·950	32·900	32·950	33·150	33·000	33·100	32·900
3	32·740	32·690	32·690	32·720	32·730	32·900	33·000	33·000	33·000	32·900	32·880	32·880
4	32·210	32·150	32·150	32·080	32·300	32·350	32·450	32·650	32·500	32·500	32·600	32·700
5												
6	32·610	32·440	32·550	32·660	32·620	32·675	32·700	32·900	32·715	32·740	32·820	32·980
7	32·260	31·990	31·970	32·070	32·085	32 300	32 300	32·250	32·650	32·660	32·700	32·980
8	33·230	32·900	32·880	32·530	32·400	32 300	32·350	32·400	32·350	32·400	32·490	32·400
9	31·600	31·700	31·800	31·740	31·850	31·990	32·025	32·130	32·100	32·200	32·560	32·690
10	32 000	31·480	31·700	31·500	31·200	31·500	31·240	31·490	31·700	31·710	32·100	32·200
11	31·670	31·250	31·490	31·470	31·200	31·700	31·700	31·650	31·650	31·650	31·890	32·300
12												
13	31·100	31·200	31·200	31·320	31·260	31·250	31·800	31·500	31·550	31·600	31·600	31·700
14	31·420	30·400	30·550	30·290	30·600	30·700	30·600	31·100	31·025	31·080	31·750	31·400
15	31·050	31·000	31·060	31·390	31·500	31·350	31·250	31·300	31·400	31·500	31·480	31·500
16	30·800	30·800	30·820	30·880	31·000	31·100	31·400	31·300	31·300	31·390	31·500	31·400
17	31·980	31·900	31·700	31·680	31·680	31·600	31·600	31·700	31·715	31·500	31·600	31·500
18	30·700	30·730	30·880	30·880	30·970	30·950	31·000	31·100	31·250	31·380	31·300	31·300
19												
20	30·590	30·540	30·720	30·690	30·740	30·900	31·000	31·000	31·000	31·020	31·040	31·030
21	30·800	30·990	31·250	30·940	31·100	31·225	31·400	31·500	31·915	31·740	31·700	31·520
22	31·090	30·800	30·550	31·000	31·150	31·000	31·200	31·300	31·400	31·600	31·540	31·600
23	31·400	31·195	31·195	31·110	31·120	31·200	31·225	31·450	31·460	31·710	31·700	31·690
24	31·840	31·500	31·290	31·200	31·200	31·325	31·600	31·600	31·600	31·680	31·700	31·700
25	30·950	30·780	30·700	30·690	30·740	30·755	30·800	30·800	30·500	30·900	30·880	30·990
26												
27	31·180	30·700	30·480	30·300	30·280	30·650	30·950	31·150	31·200	31·310	31·300	31·320
28	31·880	31·650	31·310	31·300	31·100	31·100	31·000	30·900	31·050	31·100	31·200	31·120
29	31·200	31·280	31·310	31·400	31·550	31·500	31·340	31·500	31·500	31·400	31·420	31·580
30	30·880	31·000	30·980	30·900	30·810	30·700	30·700	30·800	30·850	30·690	30·990	30·980

THERMOMETER OF SMALL HORIZONTAL FORCE.

JUNE, 1847.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	86°0	85°5	84°8	84°0	83°8	83°8	83°4	82°4	81°6	80°5	80°0	79°6
2	78·2	78·2	78·3	78·3	79·4	79·6	79·8	79·8	79·6	79·6	80·3	80·2
3	80·4	80·4	80·0	80·0	80·0	80·0	80·0	80·0	80·0	80·2	80·0	80·2
4	84·0	83·8	83·5	82·2	82·6	82·0	82·2	82·0	82·0	82·0	81·8	81·2
5												
6	84·0	84·0	83·6	83·5	83·2	83·0	82·8	82·6	82·2	82·3	82·0	82·0
7	84·0	84·0	83·7	83·6	83·2	82·8	82·8	82·2	82·0	80·2	81·2	80·4
8	78·4	79·2	79·2	79·4	80·0	80·0	80·0	80·2	80·4	80·5	80·2	80·0
9	84·2	84·2	83·9	83·7	83·6	85·2	82·8	82·6	82·2	82·3	82·0	81·4
10	82·5	83·2	82·4	82·6	82·4	82·0	82·0	82·2	82·0	82·4	81·4	80·6
11	84·3	84·1	83·8	83·6	83·8	83·8	83·2	83·2	83·0	83·0	82·5	81·0
12												
13	81·4	80·4	80·0	80·0	80·0	80·0	80·0	80·0	80·0	80·0	79·8	79·4
14	83·1	83·0	82·4	82·0	82·4	82·0	82·0	82·0	82·0	82·0	81·7	81·6
15	86·4	85·8	85·2	84·0	82·6	83·4	83·2	83·0	82·2	82·5	82·0	82·0
16	85·7	85·1	84·1	84·0	84·0	84·0	83·2	82·2	82·4	82·5	82·4	82·2
17	80·0	79·8	80·0	80·0	80·4	80·4	80·8	81·0	81·0	81·1	81·1	81·1
18	86·0	86·0	85·3	84·2	84·5	84·0	84·0	83·8	83·2	82·6	82·5	82·4
19												
20	86·8	86·4	86·0	85·3	85·0	84·0	84·0	84·0	83·8	83·2	83·2	83·0
21	85·8	84·0	83·4	83·0	83·4	83·2	82·8	82·0	81·2	81·1	80·6	81·3
22	83·9	83·6	83·2	83·0	82·1	82·0	82·0	80·6	80·0	79·2	78·8	78·4
23	79·9	80·0	80·0	80·0	80·0	80·0	80·0	79·6	79·0	78·4	78·0	77·8
24	79·0	79·4	79·8	80·0	80·0	80·0	79·4	79·5	79·4	79·0	78·8	78·8
25	83·0	83·0	82·2	82·4	82·0	82·0	82·0	82·0	82·0	81·6	81·2	81·0
26												
27	81·2	81·4	81·4	81·4	81·2	80·0	79·2	79·0	79·0	79·0	78·6	78·9
28	79·0	79·0	79·0	79·0	79·4	80·0	80·0	80·2	80·0	80·2	80·0	80·0
29	79·2	78·4	77·6	77·0	77·0	76·6	76·6	77·0	76·8	77·2	77·6	77·5
30	77·6	78·0	78·0	78·2	79·4	79·6	79·6	80·0	79·8	79·2	79·2	78·9

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JUNE, 1847.	1	33·180	33·480	33·150	33·400	33·580	33·870	34·140	34·190	33·950	34·180	34·000	33·190
	2	32·850	33·000	33·220	33·500	33·800	34·300	34·600	34·560	34·460	33·900	33·390	32·920
	3	32·700	32·640	32·620	32·800	32·900	33·000	33·300	33·400	33·250	33·100	32·800	32·450
	4	32·890	32·880	32·840	33·460	33·340	33·700	33·500	33·650	33·400	33·080	32·610	32·490
	5												
	6	32·900	32·950	33·250	33·340	33·170	33·500	33·340	33·100	33·200	33·080	33·100	33·170
	7	32·920	32·910	32·690	33·600	33·500	33·400	33·320	33·600	33·100	33·100	33·490	33·400
	8	32·700	32·740	32·940	33·250	33·540	33·680	33·700	33·600	32·950	32·430	32·250	31·860
	9	32·700	32·880	33·020	33·380	33·100	33·230	33·300	33·390	33·150	33·200	32·980	32·500
	10	32·400	32·480	32·460	32·650	32·490	32·920	33·280	32·950	32·400	32·640	32·400	32·060
	11	32·800	32·790	32·490	33·080	33·240	33·800	34·450	34·400	33·900	34·100	33·310	33·150
	12												
	13	31·700	31·640	31·750	31·760	31·820	32·500	32·600	32·550	32·550	32·780	32·440	31·860
	14	31·400	31·300	31·300	31·210	31·190	32·300	31·300	31·350	31·400	31·530	31·645	31·410
	15	31·330	31·290	31·500	31·600	31·800	32·080	32·280	32·070	32·000	31·700	31·510	31·120
	16	31·480	31·400	31·400	31·810	32·200	32·900	33·400	33·750	33·450	32·920	32·600	32·200
	17	31·480	31·500	31·690	31·900	31·900	31·700	32·100	32·000	31·900	31·520	31·480	30·800
	18	31·190	31·120	31·480	31·800	32·300	32·400	32·650	32·600	32·450	32·100	31·680	30·990
	19												
	20	31·090	31·120	31·300	31·400	31·630	31·920	32·040	32·100	31·900	31·620	31·380	30·980
	21	32·030	31·810	31·980	31·910	32·190	32·700	33·100	32·900	32·850	32·480	31·920	31·340
	22	31·520	31·610	31·860	32·280	32·450	32·610	32·800	32·700	32·800	32·300	32·040	31·690
	23	31·700	31·900	31·980	32·100	32·250	32·500	32·850	33·050	33·350	33·280	32·690	32·200
	24	31·490	31·380	31·605	31·900	32·300	32·740	33·000	32·850	32·150	32·180	31·520	31·200
	25	31·000	31·000	31·140	31·440	31·720	32·100	32·400	32·300	32·650	31·830	31·300	31·225
	26												
	27	31·400	31·480	—	32·200	32·150	32·320	32·800	33·050	33·200	33·000	32·700	32·530
	28	31·310	31·390	31·760	31·820	32·010	32·400	32·300	32·400	32·295	32·160	31·900	31·480
	29	31·500	31·540	31·800	32·100	32·320	32·600	32·550	32·560	32·500	31·700	31·500	31·180
	30	30·850	30·820	31·000	31·390	31·770	32·050	31·650	31·100	31·350	31·020	30·800	30·400

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JUNE, 1847.	1	79°0	78°0	77°9	79°9	78°0	78°0	78°2	78°0	79°0	79°0	79°2	78°2
	2	80·4	80·0	80·0	80·0	80·0	80·0	79·2	79·7	80·0	80·0	80·6	80·5
	3	80·2	80·0	80·2	80·3	82·0	83·5	84·0	84·0	84·3	85·0	84·8	84·3
	4	80·4	80·4	81·0	81·4	82·1	82·2	83·4	83·8	84·0	84·5	85·0	85·3
	5												
	6	81·7	81·7	80·3	81·5	82·0	82·1	83·8	84·1	85·2	85·7	85·6	83·8
	7	80·2	80·0	80·0	79·8	80·0	80·6	82·0	80·4	80·2	79·6	79·2	78·5
	8	79·2	78·0	78·0	77·8	77·9	78·3	79·7	80·1	82 4	84·0	84·4	84·3
	9	81·4	80·8	80·8	81·2	82·0	82·4	82·8	82·0	82·8	83·0	82·4	82·4
	10	80·5	80·0	79·9	79·9	80·1	81·7	82·0	82·2	83·0	84·0	84·6	84·0
	11	79·0	78·0	78·0	78·0	77·6	77·0	76·8	77·4	78·0	77·4	76·8	76·4
	12												
	13	79·4	79·6	79·6	79·6	80·0	80·0	80·3	81·0	82·0	82·5	83·2	83·0
	14	81·4	81·2	81·2	81·8	83·0	83·6	84·2	85·4	86·0	86·5	86·5	86·4
	15	82·0	82·0	81·8	81·7	81·8	82·3	83·4	84·1	85·6	86·0	85·6	85·6
	16	82·2	81·8	81·6	81·8	82·0	80·8	80·2	80·0	80·0	79·2	79·2	79·8
	17	81·0	81·0	80·4	81·3	82·0	83·6	84·0	84·2	86·0	86·5	86·0	86·0
	18	82·1	82·1	82·0	82·0	82·0	83·0	84·0	85·0	85·8	86·0	86·5	86·5
	19												
	20	82·6	82·8	82·0	82·1	83·2	84·0	85·3	86·0	87·0	87·4	87·0	86·1
	21	81·0	81·6	81·4	81·5	82·4	82·6	83·0	83·2	83·4	83·6	83·8	84·1
	22	78·2	78·0	78·0	77·6	77·6	78·5	79·7	80·1	79·2	80·0	79·3	79·7
	23	77·6	77·2	77·6	78·0	78·8	79·0	79·0	79·0	78·4	78·8	78·8	78·8
	24	79·0	79 4	79·1	79·2	79·5	79·1	79·5	80·3	80·8	81·2	81·5	82·7
	25	80·9	80·9	81·0	81·2	81·3	82·0	82·0	82·4	81·2	82·8	82·0	82·8
	26												
	27	78·8	78·8	—	79·5	79·8	80·5	79·5	78·6	78·0	78·0	78·4	78·2
	28	80·0	80·0	80·0	79·7	79·9	80·0	81·0	81·6	81·2	81·2	80·8	80·0
	29	77·5	77·0	76·0	76·0	75·8	75·7	75·8	75·8	76·4	77·0	77·6	77·0
	30	78·8	78·7	78·8	78·8	78·6	79·4	80·2	81·2	80·6	82·0	82·0	82·0

SMALL HORIZONTAL FORCE MAGNETOMETER (*in Scale readings*).

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
JULY, 1847.	1	30·290	30·690	30·680	30·390	30·240	30·500	30·700	30·700	30·900	30·900	30·720	30·700
	2	31·160	30·800	30·850	30·690	30·920	31·000	31·050	31·100	31·100	30·999	31·200	31·180
	3												
	4	30·400	30·260	30.200	30·220	30·300	30·350	30·500	30·500	30·500	30·500	30·480	30·900
	5	30·200	30·200	30·200	30·200	30·290	30·300	30·400	30·450	30·400	30·610	30·500	30·500
	6	30·000	29·980	30·040	30·260	30·300	30·300	30·600	30·550	30·600	30·480	30·920	30·720
	7	30·320	30·290	29·95	29·980	29·710	29·250	29·700	30·100	29·750	30·020	30·000	30·100
	8	30·440	30·190	29.900	29·810	29·860	29·980	29·950	30.100	30·000	30·000	30.000	29·960
	9	30·360	30.300	30·060	30·160	30.120	30·000	29·850	29·650	29·800	29·500	29.400	29·500
	10												
	11	28·600	25·480	28·600	28·740	29·000	28.750	28·900	28·900	29·050	29·090	29.170	29·220
	12	29·090	29·130	29·370	29·200	29·280	29·100	29·000	29·100	29·200	29·260	29·200	29·090
	13	29·650	29·160	29·160	29·240	29·290	29.350	29·300	29·300	29·350	29·200	29·300	29·320
	14	29·130	29·090	29.100	29·080	29·190	29·200	29·300	29·300	29.200	29·320	29·300	29.400
	15	29·000	28·820	28·800	28·760	28·820	28.800	29·100	29·050	29.000	29·110	29.400	29·330
	16	29·320	29.090	29.060	29·220	29·350	29.400	29·400	29·350	29·500	29·520	29·890	29·620
	17												
	18	28·920	25·970	28·880	28·900	28·920	28.900	28·900	29·050	29·200	29·220	29·500	29·700
	19	29·700	29·460	29·280	29·080	29·180	29.200	29·200	29·300	29·390	29·300	29·300	29·280
	20	28·210	28·290	28·600	28 850	28·840	28·900	28·900	29·100	29·150	29·130	29·180	29·200
	21	28·920	28·900	28·900	28·900	28·900	29.000	29.000	29·000	29·090	29·120	29.180	29·200
	22	28·480	28·410	28·920	29·000	29·100	29.200	29·200	29·300	29·300	29·220	29·320	29·400
	23	29·430	28·200	23·400	28·530	28·440	28·500	28·795	28·690	28·780	28·910	28·720	28·890
	24												
	25	27·820	27·960	28·180	28·170	28·400	28·495	28·660	28·800	28·780	29·000	28·900	28·720
	26	29·480	29·200	28·600	28·640	28·550	29.000	29·000	28·995	28·990	28·900	29.120	29·000
	27	28·300	28·030	28·220	28·600	28·450	28.500	28·500	28·600	28·600	28·600	28·590	28.790
	28	28·670	28·530	28·650	28·620	28·590	28·600	28·640	28·800	28·700	28·790	28·890	28.790
	29	29·300	28·900	28·890	29·000	28·800	28·600	28·500	28·800	28·700	28.700	28.630	28.600
	30	28·500	28·300	28·390	28·420	28·230	28·100	28·200	28·300	28·500	28.405	28·800	28·810
	31												

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
JULY, 1847.	1	81·7	80·5	79·8	79·6	79·2	79·2	78·0	79·0	78·0	78·0	78·5	78·0
	2	78·0	78·2	78·2	78.0	78·0	78·2	78·0	79·0	78·0	78·2	77·5	77·2
	3												
	4	82·0	82·0	81·6	81·2	81·0	80·6	80·6	80·4	80·4	80·6	80.2	79·0
	5	82·2	82·0	82·0	81·5	81·8	82·0	81·4	81·0	80·6	80·4	80·5	80·4
	6	82·7	82·8	82·0	81·0	81·0	80·8	80·0	80·0	80·0	80·0	79·7	80·0
	7	81·0	81·4	81·2	80·4	81·0	80·8	80·6	80·6	80·6	80·4	80.0	80·0
	8	80·0	79·4	79·4	79·9	80·0	80·0	80·0	80·0	80 0	80·0	80·0	80·0
	9	80·2	80·2	80·1	80·0	80·0	80·2	80·2	80·2	80·0	80·0	80·0	80·0
	10												
	11	83·8	83·6	83·0	82·8	82·0	82·0	81·8	81·6	81·2	80·8	80·6	80·6
	12	82·0	82·0	80·3	80·0	80·8	81·0	80·6	80·4	80·4	80·5	80·0	80·0
	13	79·8	80·0	80·0	80·0	80·4	80·0	80·0	80·0	80·0	80·0	80·0	80·0
	14	83·0	82·3	82·1	82·0	82·0	81·4	81·4	81·0	81·0	80·4	80·2	80·2
	15	83·7	83·3	82·8	82·4	82·0	81·4	81·4	81·0	81·0	80·8	80·0	80·0
	16	82·1	82·0	82·0	81·7	81·6	80·8	81·0	80·8	80·8	80·6	80·4	80·2
	17												
	18	82·8	82·6	82·0	82·0	81·6	81·2	81·2	80·8	80·6	80·4	79·2	78·8
	19	79·1	79·3	80·0	80·0	80·4	80·0	80·0	80·0	80·0	80·0	79·6	79·5
	20	83·9	83·4	83·0	82·5	82·0	82·0	81·6	81·0	80·8	80·6	80·5	80·3
	21	84·0	83·9	82·3	82·0	82·0	82·0	82·0	81·8	81·4	81·0	80·8	80·8
	22	83·6	83·6	81·8	80·6	80·6	80·4	80·0	80·0	80·0	80·0	80·0	80·0
	23	84·1	84·0	83·4	82·2	82·8	82·3	82·0	82·0	81·8	81·0	80·8	80·4
	24												
	25	82·0	82·0	81·4	81·1	80·8	80·2	80·0	79·9	80·0	78·9	78·0	78·4
	26	78·2	78·1	78·3	78·0	78·2	78·6	78·0	78·0	78·0	77·4	77·2	77·0
	27	81·0	81·3	80·7	80·0	80·0	80·0	80·0	80·0	79·6	79·2	79·4	79·2
	28	81·0	80·2	79·6	79·8	79·8	79·8	79·8	79·8	79·4	79·0	78·8	78·6
	29	78·4	78·0	78·0	79·5	77·6	77·8	78·0	78·0	78·0	78·0	78·4	78·5
	30	80·4	81·5	81·0	80·2	80·4	80·0	80·0	80·0	80·0	80 0	79·5	79·0
	31												

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

JULY, 1847.

Göttingen Mean Time	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	30·680	30·700	30·980	31·100	31·600	32·290	32·200	32·300	32·400	31·980	31·480	31·400
2	31·220	31·250	31·420	31·510	31·800	32·250	32·150	32·250	32·050	31·880	31·480	31·100
3												
4	30·700	30·600	30·720	30·960	30·940	31·270	31·340	31·400	31·300	30·920	30·620	30·410
5	30·590	30·610	30·800	30·950	31·300	31·600	32·100	32·150	31·700	31·000	30·130	30·130
6	30·620	30·610	30·800	30·980	31·310	31·900	32·400	32·350	32·450	31·880	31·340	30·300
7	30·220	30·310	30·400	30·410	30·200	30·000	30·425	30 550	30·625	30·680	30·700	30·700
8	30·000	30·080	30·190	30·300	30·570	30·930	31·150	31·300	31·000	30·500	30·300	30·700
9	29·500	29·540	28·850	28·620	28·700	29·110	29·650	29·450	29·550	29·620	29·400	29·120
10												
11	29·380	29·480	29·200	29·800	29·790	29·800	30·550	30·120	29·650	29·820	29·300	29·180
12	29·200	29·400	29·300	29·700	29·920	30·450	30·500	29·910	29·700	30·280	30·410	30·070
13	29·300	29·400	29·380	29·600	29·630	29·830	29·800	29·630	29·700	29·850	29·500	29·200
14	29·320	29·390	29·400	29·580	29·960	30·125	30·250	30·250	30·010	29·920	29·700	29·380
15	29·200	29·160	29·180	29·340	29·600	29·880	30·650	30·800	30·900	30·850	30·100	29·600
16	29·400	29·800	29·780	30·100	30·210	30·440	30·500	30·450	30·850	30·000	29·700	29·600
17												
18	29·610	29·460	29·590	29·700	29·870	30·500	30·400	30·340	30·300	30·120	30·200	29·900
19	29·320	29·290	29·390	29·690	29·950	30·600	31·100	31·150	30·850	30·200	29·280	28·530
20	29·220	29·190	29·230	29·380	29·500	29·700	29·780	29·650	29·550	29·200	29·130	29·080
21	29·170	29·180	29·300	29·570	29·880	30·010	29·850	29·640	29·250	29·140	28·900	28·910
22	29·530	29·600	29·750	29·700	29·490	29·520	29·810	29·750	29·375	29·380	29·180	28·700
23	28·820	28·980	28·880	29·000	29·200	29·780	29·920	30·170	30·245	30·020	29·600	29·340
24												
25	28·870	29·000	29·020	29·350	29 650	29·700	29·820	30·000	29·950	30·040	30·040	29·540
26	29·080	29·000	29·180	29·500	29·800	30·400	30·065	29·850	29·500	29·080	28·780	28·540
27	28·890	28·900	28·920	29·180	29·000	29·740	29·900	29·540	29·325	29·200	29·180	28·980
28	28·800	28·800	28·980	29·000	29·180	29·700	30·000	30·250	30·300	30·010	29·980	29·700
29	28·600	28·600	28·970	29·120	29·240	29·540	29·600	29·620	29·400	29·040	28·670	28·590
30	28·890	28·680	28·880	28·700	28·790	28·900	29·200	29·600	29·600	29·300	28·880	28·590
31												

THERMOMETER OF SMALL HORIZONTAL FORCE.

JULY, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	79°0	79°2	78°0	78°0	77°7	77°0	78°0	78°2	78°0	79°0	79°2	78°0
2	77·3	77·2	76·7	76·6	77·5	78·2	79·8	79·0	79·4	79·3	79·6	79·8
3												
4	79·2	80·0	79·7	80·0	79·7	80·2	81·2	81·5	82·2	83·2	83·6	83·0
5	80·4	80·4	80·0	80·0	80·0	80·0	80·8	81·6	82·0	83·2	83·2	82·5
6	80·0	80·0	79·8	80·0	80·1	80·0	79·8	80·0	80·0	80·7	80·5	80·2
7	80·0	80·0	80·0	80·0	80·6	81·0	82·0	82·0	82·0	82·4	81·8	80·8
8	80·0	79·9	80·0	80·0	80·1	80·2	81·4	81·0	82·0	82·4	83·2	80·3
9	80·0	80·0	80·0	80·0	80·0	80·0	81·4	82·0	82·0	82·4	82·5	82·4
10												
11	80·0	80·0	80·0	80·1	81·3	82·0	82·1	82·4	84·0	84·5	84·5	83·4
12	80·0	80·0	80·0	80·4	81·0	81·6	82·1	83·0	84·0	82·5	80·4	79·3
13	80·0	79·6	79·8	79·8	80·1	81·0	82·0	82·3	83·6	84·0	83·2	83·0
14	80·0	80·0	79·7	80·0	80·7	81 6	82·0	83·0	83·6	84·0	84·5	84·0
15	80·0	80·0	79·8	80·0	80·0	81·2	80·2	81·0	82·0	81·6	82·0	82·0
16	80·3	80·0	80·0	80·0	80·5	81·0	82·0	82·0	82·2	82·2	82·2	82·0
17												
18	79·0	79·0	79·3	79·3	79·9	79·9	80·2	81·2	82·2	81·6	80·4	80·0
19	79·5	79·8	79·8	80·0	80·0	81·0	81·4	82·2	82·2	82·6	83·2	84·0
20	80·0	80·0	80·0	80·0	80·2	81·4	82·2	83·0	84·0	84·4	84·9	84·4
21	80·6	80·5	80·5	80·8	81·2	81·2	82·0	83·0	84·0	84·5	84·8	83·1
22	80·0	79·8	80·0	80·0	80·3	81·4	82·1	83·0	84·0	84·4	84·6	84·2
23	80·0	80·0	80·0	80·2	80·6	80·3	80·3	80·1	79·9	79·6	80·0	80·4
24												
25	78·4	78·0	77·8	77·0	76·5	77·5	77·3	77·8	78·2	78·7	78·8	78·0
26	78·4	76·0	76·0	76·0	76·6	77.0	78·0	78·4	80·0	80·8	81·4	80·8
27	78·9	78·4	78·3	78·0	79·4	79·2	80·2	81,0	82·0	82·5	82·0	81·5
28	78·5	78·5	78·0	78·4	78·8	78·0	78·0	78·0	78·0	78·7	79·0	78·7
29	78·4	78·4	77·8	78·0	78·4	79·7	80·0	80·2	81·2	81·2	81·6	80·2
30	79·5	79·2	79·4	79·4	80·0	80·4	82·0	82·4	83·4	84·0	84·0	84·2
31												

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
AUGUST, 1847. 1	28·100	27·990	28·080	28·150	28·190	28·200	28·300	28·350	28·400	28·370	28·390	28·400
2	28·320	28·140	28·630	28·600	28·480	28·450	28·450	28·550	28·550	28·500	28·600	28·600
3	28·540	28·300	28·340	28·490	28·500	28·700	28·800	28·700	28·700	28·590	28·680	28·690
4	27·800	27·700	27·500	27·530	28·220	28·600	28·600	28·700	29·000	28·800	29·000	28·900
5	26·440	26·690	26·100	27·110	26·980	26·900	27·700	27·100	27·100	27·300	27·880	27·830
6	28·030	27·660	27·490	27·580	27·410	27·500	27·750	27·600	27·675	27·700	27·890	27·590
7												
8	27·500	27·700	27·860	27·900	27·900	27·700	27·600	27·880	28·300	27·920	27·900	28·560
9	27·050	27·180	27·390	27·610	27·600	27·600	27·800	27·800	27·800	27·790	27·800	27·900
10	27·810	27·540	27·700	27·800	27·800	27·600	27·500	27·700	27·800	27·680	27·620	27·620
11	27·800	27·700	27·720	27·650	27·590	27·600	27·600	27·675	27·610	27·700	27·620	27·660
12	27·900	27·900	27·900	27·700	27·780	27·800	27·900	27·950	27·850	27·800	28·000	27·900
13	28·300	27·950	27·900	27·750	27·740	27·700	27·700	27·700	27·800	27·870	27·998	28·000
14	28·600	28·250	28·000	27·600	27·440	26·375	26·950	27·400	27·500	27·480	27·480	27·470
15												
16	26·800	26·900	27·600	27·670	27·540	27·550	27·500	27·700	27·750	27·750	27·750	27·700
17	27·520	27·400	27·270	27·100	27·980	28·000	26·550	27·750	28·000	27·600	27·420	27·500
18	27·600	27·580	27·560	27·660	27·480	27·400	27·250	27·400	27·400	27·200	27·500	27·400
19	27·390	27·200	27·220	27·120	27·000	27·100	27·100	27·050	27·050	27·130	27·160	27·200
20	27·000	26.670	26·820	26·840	26·960	26·900	26·900	26·900	27·000	27·000	27·100	27·200
21												
22	24·350	24·240	24·680	24·580	24·300	24·500	24·800	25·200	25·400	25·680	25·700	25·820
23	26·070	25·970	25·930	26·090	26·360	26·100	26·100	26·200	26·100	26·300	26·510	26·600
24	25·700	25·520	25·780	25·840	26·000	25·900	25·900	26·000	26·050	26·200	26·100	26·200
25	25·160	25·350	24·940	24·650	24·600	25·300	25·550	25·500	25·450	25·700	25·780	25·920
26	24·990	24·950	25·480	25·820	26·060	26·300	26·200	26·200	26·300	26·490	26·400	26·400
27	27·120	26·790	26·820	26·910	26·880	26·750	26·850	26·900	27·000	26·990	26·820	26·780
28												
29	26·160	26·120	26·400	26·460	26·300	26·300	26·600	26·600	26·500	26·400	26·560	26·520
30	26·130	26·490	26·400	26·200	25·900	26·600	26·300	26·900	26·550	26·520	26·710	26·640
31	25·890	25·800	25·640	25·820	26·000	26·000	26·100	26·100	26·100	26·100	26·300	26·300

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
AUGUST, 1847. 1	83°4	83°2	82°4	82°0	81°6	81°2	81°0	80°6	80°2	80°6	80°2	80°0
2	82·3	80·0	79·9	79·8	80·0	80·0	80·0	80·0	79·8	79·8	79·6	79·6
3	79·8	80·0	80·0	80·0	79·9	79·0	79·0	79·0	79·0	79·2	78·4	78·0
4	79·8	80·0	80·0	80·0	79·5	79·6	78·8	78·8	79·0	79·0	79·0	79·0
5	80·5	79·8	79·8	80·0	79·5	80·0	80·0	80·0	80·0	79·6	79·4	78·5
6	79·8	79·7	79·8	79·5	79·8	80·0	80·0	80·0	79·4	79·2	79·0	79·0
7												
8	80·0	80·0	79·2	79·2	79·2	79·3	79·5	79·3	78·7	78·4	78·0	77·5
9	82·2	81·8	80·3	80·0	80·0	80·0	79·4	79·2	79·2	79·2	79·0	78·8
10	82·0	82·0	81·4	80·0	80·0	80·0	80·0	79·8	79·6	79·4	79·2	79·1
11	81·0	80·0	80·0	79·9	80·0	79·6	80·0	79·8	79·8	79·2	79·2	79·2
12	80·2	80·0	79·6	79·4	79·2	79·4	79·0	78·4	78·8	79·0	78·8	78·4
13	78·4	79·0	79·3	79·4	79·4	79·4	79·6	79·8	79·6	78·8	79·2	79·2
14	81·2	80·2	78·6	79·0	78·6	78·0	78·2	78·6	79·0	78·8	78·8	78·7
15												
16	82·3	82·0	81·6	81·2	80·8	80·0	80·0	80·0	79·8	79·2	79·2	79·3
17	82·8	82·0	81·7	81·2	80·0	80·0	80·0	80·0	80·0	80·0	79·6	79·4
18	82·1	81·9	81·2	80·3	80·4	80·0	80·0	80·0	80·0	80·0	78·4	78·0
19	81·1	80·8	80·4	80·2	80·0	80·0	80·0	79·8	79·8	79·6	79·3	79·2
20	82·1	81·8	81·3	80·4	80·4	80·0	80·0	80·0	80·0	79·6	79·6	78·4
21												
22	80·0	80·0	80·0	80·0	80·0	80·0	80·0	80·0	79·8	79·2	78·8	78·8
23	81·8	80·2	80·3	79·4	78·4	78·2	78·8	78·0	78·0	78·0	78·0	77·2
24	80·4	80·0	80·0	80·0	79·4	79·0	79·0	79·0	79·0	78·5	78·5	78·5
25	81·5	81·7	80·5	80·1	80·0	80·0	80·0	79·4	79·4	78·8	78·8	78·7
26	82·0	81·4	80·0	80·0	78·4	79·0	79·0	79·0	79·0	78·5	78·0	78·2
27	80·0	80·0	79·4	78·5	78·8	78·8	78·0	78·0	78·0	77·0	77·4	77·6
28												
29	81·4	81·0	80·5	80·0	80·0	80·0	79·0	78·4	78·2	78·4	78·4	78·2
30	82·1	81·7	80·0	80·0	80·2	79·2	79·2	79·2	79·0	78·5	77·4	77·2
31	82·5	82·0	81·6	80·8	80·0	80·0	80·0	80·0	79·8	79·2	79·0	79·0

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

AUGUST, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	28·620	28·600	28·660	28·980	29·400	29·890	29·970	29·940	29·900	29·700	29·100	28·620
2	28·660	28·700	28·680	28·520	28·590	28·600	28·650	28·625	28·800	28·720	28·720	28·700
3	28·620	28·780	28·900	29·200	29·400	29·300	29·720	29·610	29·350	29·710	29·600	28·820
4	29·050	29·200	29·100	29·650	26·300	26·900	26·700	26·600	27·000	26·800	27·225	26·800
5	27·700	27·330	27·620	27·600	28·090	28·130	28·420	28·750	28·450	29·950	28·070	28·100
6	28·210	28·000	27·900	27·550	27·900	28·300	28·620	28·800	28·660	28·750	28·620	28·380
7												
8	28·220	27·830	27·930	27·900	27·620	27·700	27·750	27·600	27·650	27·540	27·370	26·900
9	27·800	27·800	28·000	28·200	28·400	28·200	28·150	28·300	28·100	27·920	27·700	27·620
10	27·720	27·780	27·800	27·930	28·100	28·400	28·600	28·700	28·500	28·210	27·970	27·700
11	27·620	27·700	27·800	27·920	28·020	28·100	28·450	28·400	28·300	28·410	28·320	28·150
12	27·810	27·700	27·900	28·000	28·830	29·400	29·500	29·700	29·400	29·360	29·020	28·750
13	28·030	28·200	27·960	28·400	28·590	29·300	29·550	29·450	29·300	29·060	29·490	29·390
14	27·310	27·340	27·360	27·300	27·700	28·100	28·550	29·250	29·750	28·500	27·800	27·930
15												
16	27·700	27·600	27·680	27·900	28·190	28·510	28·700	28·550	28·300	27·960	28·020	27·730
17	27·610	27·650	27·820	28·100	28·450	28·720	28·600	28·400	28·350	28·400	27·900	27·900
18	27·490	27·600	27·310	27·320	27·630	27·700	28·550	28·650	28·550	28·300	28·170	27·780
19	27·230	27·360	27·600	27·690	27·760	28·020	28·300	28·320	28·390	28·540	27·990	27·600
20	27·290	27·440	27·400	27·480	27·800	28·400	28·650	28·950	28·700	28·400	27·980	27·750
21												
22	25·750	25·700	25·780	25·720	25·970	26·250	26·530	26·420	26·150	25·930	25·970	25·900
23	26·680	26·790	26·800	26·800	27·000	27·450	27·890	27·700	26·900	26·270	25·800	25·350
24	26·200	26·200	26·300	26·890	27·200	27·700	27·780	27·600	26·990	26·100	25·700	25·620
25	26·200	26·200	26·100	26·400	26·960	26·900	26·950	26·700	26·400	26·200	25·850	25·600
26	26·400	26·500	26·500	26·750	27·200	27·700	27·700	27·800	27·950	27·800	27·640	27·100
27	26·890	26·800	26·600	26·500	26·900	27·050	27·300	27·250	27·225	26·640	26·200	25·500
28												
29	26·540	26·710	26·800	26·680	26·800	27·160	27·890	27·490	27·500	27·200	26·920	26·500
30	26·890	26·900	27·000	27·150	27·440	27·900	28·200	27·750	27·300	26·890	26·440	26·200
31	26·390	26·320	26·480	26·700	27·030	27·490	28·000	28·300	27·800	27·320	26·800	26·500

THERMOMETER OF SMALL HORIZONTAL FORCE.

AUGUST, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	80·0	79·8	79·9	79·8	79·5	78·4	80·0	81·5	82·0	82·6	83·0	82·3
2	79·2	79·6	79·2	79·9	80·0	80·2	81·0	81·4	82·0	82·6	82·5	80·5
3	78·0	78·0	78·0	78·0	78·4	79·8	80·3	81·2	82·0	80·9	79·4	79·3
4	79·0	78·8	79·0	79·4	79·6	80·0	80·8	80·8	81·2	80·4	80·5	80·5
5	78·9	79·2	79·3	79·4	79·9	80·0	80·2	79·8	81·0	80·4	80·4	80·0
6	78·5	79·0	79·2	79·0	79·4	79·6	79·6	80·0	80·0	80·4	80·6	80·4
7												
8	77·6	77·8	78·0	78·2	79·3	79·9	80·4	81·7	82·8	82·8	83·0	82·2
9	78·8	78·0	78·0	78·4	79·2	80·0	81·2	82·0	82·1	83·0	83·5	83·5
10	79·2	79·4	78·4	79·0	79·3	79·9	80·4	81·2	82·0	82·0	82·4	81·2
11	79·2	79·2	79·0	79·2	79·6	79·2	79·0	79·4	80·6	80·8	80·5	80·1
12	78·8	79·2	78·4	79·0	77·8	78·0	78·0	78·1	79·8	79·2	79·8	78·7
13	78·4	77·6	77·4	76·8	78·0	79·0	80·0	81·2	82·0	82·5	82·7	81·7
14	78·6	78·6	78·8	79·2	79·4	80·0	80·0	80·0	80·0	80·6	81·2	81·2
15												
16	79·3	79·3	79·3	79·4	79·8	80·0	81·2	82·0	82·8	83·8	83·4	83·2
17	79·0	79·0	78·7	78·9	79·5	80·1	81·0	82·0	84·0	81·6	82·4	82·2
18	78·0	78·4	78·6	79·0	79·3	80·0	79·5	80·0	81·6	82·5	82·0	81·6
19	79·2	79·2	78·0	78·2	79·0	79·9	81·3	81·9	82·4	82·4	82·5	82·3
20	78·6	78·6	78·1	79·2	80·0	80·2	80·6	81·6	82·0	82·8	83·5	83·0
21												
22	78·5	78·6	78·2	79·3	79·5	80·2	81·4	82·0	83·4	83·3	83·0	82·0
23	77·2	77·0	76·6	76·5	76·6	77·0	78·0	79·2	80·0	81·2	81·6	82·0
24	78·4	78·4	78·0	78·0	78·0	78·4	79·5	80·4	82·0	82·4	82·3	82·0
25	78·6	78·0	78·0	79·0	78·7	80·0	81·2	81·2	82·0	82·3	82·7	82·1
26	78·0	77·2	77·8	78·0	78·0	78·4	79·7	80·2	81·0	81·2	81·0	80·4
27	77·0	77·4	78·0	78·0	78·8	80·0	80·2	81·2	82·0	82·6	82·8	82·2
28												
29	78·0	78·0	78·0	78·0	78·4	79·6	79·2	80·0	81·8	82·0	82·0	82·0
30	76·8	76·8	76·5	77·0	77·8	78·8	80·0	80·2	81·0	82·0	82·6	82·4
31	78·8	78·6	78·3	78·4	79·3	79·8	80·2	80·3	81·2	82·0	82·4	82·4

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
SEPTEMBER, 1847. 1	26·400	26·500	26·500	26·280	26·680	26·600	26·215	26·300	26·250	26·320	26·400	26·500
2	26·810	26·750	26·700	26·400	26·300	26·500	26·800	26·900	26·500	26·590	26·590	26·500
3	26·470	26·300	26·490	26·500	26·490	26·750	26·500	26·500	26·600	26·550	26·480	26·380
4												
5	25·820	26·000	26·000	25·940	25·790	25·900	26·200	25·995	26·200	25·890	26·010	26·140
6	26·150	25·840	25·650	25·700	25·820	25·800	25·830	25·800	25·900	26·200	26·100	26·080
7	26·040	25·900	25·740	25·600	25·920	25·900	25·900	25·800	25·900	26·000	26·020	25·980
8	26·520	26·450	26·410	26·370	26·510	26·500	26·500	26·450	26·400	26·380	26·300	26·220
9	27·610	26·440	25·890	25·600	25·320	26·100	25·450	25·200	25·500	25·900	25·660	25·460
10	26·000	26·150	26·280	26·220	26·140	26·200	26·000	26·115	26·200	26·200	26·000	26·320
11												
12	25·200	25·300	25·500	25·420	25·420	25·550	25·500	25·500	25·450	25·400	25·600	25·600
13	23·750	23·100	22·800	22·900	23·200	22·800	23·140	23·000	23·400	24·580	24·400	24·640
14	24·880	25·320	25·200	25·220	25·100	25·350	25·300	25·600	25·500	25·380	25·600	25·530
15	25·260	25·090	25·070	24·900	24·900	24·900	24·900	24·900	24·900	24·900	24·930	25 090
16	25·310	25·300	25·420	25·220	25·200	25·100	25·200	25·150	25·200	25·200	25·300	25·600
17	24·380	24·400	24·150	24·080	24·150	23·750	23·750	23·900	24·400	24·500	24·500	24·590
18												
19	24·300	24·400	24·460	24·320	24·300	24·300	24·400	24·400	24·450	24·500	24·520	24·815
20	24·500	24·450	24·490	24·350	24·400	24·400	24·400	21·500	24·500	24·500	24·470	24·640
21	23·960	24·000	24·050	23·980	23·990	24·000	24·050	24·100	24·300	24·300	24·340	24·420
22	23·800	23·750	23·650	23·730	23·700	23·750	23·800	24·000	24·100	24·000	24·100	24·140
23	23·670	23·320	23·150	22·620	22·340	27·600	22·800	23·300	23·225	23·540	23·900	24·060
24	22·500	17·300	15·350	13·140	15·280	10·080	12·350	13·650	14·550	15·860	18·390	18·500
25												
26	21·750	21·920	21·600	21·800	21·680	21·600	21·500	21·750	22·500	22·300	21·700	21·920
27	16·400	15·130	17·020	16·550	18·600	19·000	19·500	21·000	21·000	21·300	21·480	21·220
28	21·680	21·800	21·900	21·880	21·980	22·050	22·110	22·200	22·150	22·420	23·320	22·620
29	22·700	22·840	23·050	22·380	23·130	22·900	23·350	22·550	22·335	22·500	22·240	22·120
30	23·000	22·800	23·000	22·940	22·900	22·900	22·900	22·800	23·000	23·000	23·080	23·260

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
SEPTEMBER, 1847. 1	82°1	82°0	80°3	80°1	80°0	79°0	79°4	79°4	79°6	79°2	79°0	78°8
2	80.3	80.0	80.0	80.0	80.0	80.0	79.6	79.4	79.4	79.4	79.4	79.2
3	80.1	80.0	80.0	79.8	79.2	78.0	78.0	78.2	78.2	78.3	78.0	78.1
4												
5	81.6	81.2	80.6	80.0	80.0	80.0	79.0	78.8	78.6	78.4	78.1	78.0
6	79.9	79.8	79.3	79.0	79.2	79.0	79.0	78.6	78.6	78.5	78.0	78.4
7	78.8	79.0	78.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	77.9	77.6
8	77.8	77.2	76.4	76.3	76.6	76.0	76.2	76.0	76.2	76.4	76.4	76.0
9	74.2	74.8	75.2	75.3	75.3	76.0	76.0	76.0	75.4	74.9	74.5	75.0
10	78.0	77.6	76.4	76.2	76.8	76.8	76.8	76.8	76.8	76.9	76.8	76.4
11												
12	81.6	81.0	80.0	80.0	80.0	80.0	79.6	79.4	79.4	79.0	78.7	78.6
13	82.0	81.4	80.2	80.2	80.0	80.0	80.0	80.0	79.6	79.0	78.8	78.7
14	82.4	80.0	79.4	79.2	79.2	79.0	79.0	78.0	77.8	77.6	77.2	77.6
15	80.4	80.1	80.0	80.0	80.0	80.0	80.0	79.8	79.6	79.0	78.9	78.8
16	82.0	81.6	81.0	80.0	79.9	79.8	79.4	79.0	78.8	78.4	78.3	78.3
17	82.0	81.7	80.2	80.0	80.0	80.0	79.8	79.2	79.0	78.8	78.4	78.5
18												
19	83.0	82.0	81.6	81.2	81.0	80.2	80.0	80.0	80.0	79.8	79.2	78.4
20	82.0	81.8	81.2	80.3	80.0	80.0	79.4	79.0	78.2	78.0	77.9	77.4
21	82.0	81.6	80.6	80.0	79.8	79.6	79.2	79.0	78.2	78.0	78.0	78.0
22	82.0	81.8	80.2	80.0	80.0	80.0	79.6	79.4	79.2	78.8	78.8	78.4
23	82.0	81.6	80.5	80.0	80.0	79.6	79.8	79.4	79.0	78.6	78.6	78.4
24	81.7	81.3	80.1	80.5	80.3	80.1	80.0	79.9	79.7	80.0	79.8	79.2
25												
26	81.2	80.4	80.0	79.7	79.4	79.4	79.2	79.0	78.8	78.4	78.0	77.6
27	81.8	81.7	80.1	80.0	80.0	79.8	79.4	79.6	79.4	78.8	78.6	78.4
28	82.4	82.5	82.0	81.4	81.0	80.2	80.0	80.0	80.0	79.6	79.4	79.0
29	81.6	81.3	80.2	80.0	80.0	80.0	80.0	79.4	79.2	79.0	78.0	77.2
30	80.0	79.9	79.2	78.6	78.4	78.0	78.0	78.0	77.4	77.2	77.0	77.0

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

SEPTEMBER 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	26·400	26·520	26·560	26·450	26·730	27·450	27·800	28·000	27·900	27·500	27·300	26·950
2	26·580	26·920	26·880	26·750	26·960	27·500	27·800	27·900	27·950	27·400	27·120	26·900
3	26·600	26·500	26·600	26·400	26·420	26·700	26·600	27·000	26·800	26·800	26·450	26·690
4												
5	26·480	26·400	26·300	26·240	26·180	26·730	27·060	27·370	27·300	27·120	26·900	26·600
6	26·080	26·120	26·200	26·300	26·700	27·000	27·450	27·900	27·700	27·000	26·600	26·400
7	26·000	26·100	26·120	26·500	27·100	27·580	28·000	27·800	27·700	27·390	26·950	26·830
8	26·300	26·440	26·540	26·660	27·200	27·850	28·150	28·200	28·050	27·810	27·810	27·810
9	25·420	25·340	25·700	25·450	25·580	26·100	26·500	26·720	26·910	26·720	26·550	26·200
10	26·270	25·980	25·740	25·860	26·440	27·100	27·110	27·000	26·450	25·600	25·580	25·480
11												
12	25·560	25·600	26·150	25·960	25·560	26·200	26·200	25·940	25·950	25·700	24·880	23·900
13	24·600	24·580	24·780	24·320	24·180	24·650	24·850	24·800	25·200	24·920	25·130	25·000
14	25·480	25·400	25·360	25·300	25·500	25·750	26·050	26·310	26·100	26·020	25·810	25·160
15	25·050	25·000	24·990	24·920	25·000	25·500	25·850	26·210	26·500	26·500	26·200	25·790
16	26·020	25·720	25·600	25·400	25·600	26·350	25·600	25·810	25·550	25·500	24·950	24·760
17	24·630	24·680	24·700	24·750	25·000	25·400	25·550	25·400	25·250	25·000	24·900	24·540
18												
19	24·700	25·000	24·700	24·800	24·750	25·130	25·500	25·820	25·600	25·140	24·890	24·780
20	24·790	24·790	24·720	24·700	24·620	24·650	24·850	24·600	24·350	24·020	23·980	23·960
21	24·580	24·620	24·550	24·250	24·300	24·540	24·700	25·000	25·000	24·800	24·450	24·000
22	24·210	24·310	24·300	23·900	24·200	25·150	25·600	25·350	24·950	24·380	24·190	23·990
23	23·900	24·390	24·280	23·950	25·260	24·970	24·380	24·520	24·100	23·480	23·120	22·580
24	17·820	18·600	19·190	19·580	20·000	20·500	21·200	21·350	21·310	21·330	20·910	20·840
25												
26	24·940	23·200	23·050	22·000	21·690	22·600	22·920	23·380	22·500	21·900	21·500	20·040
27	21·520	21·540	21·380	21·550	26·690	20·800	21·700	21·950	22·050	21·980	21·700	21·620
28	22·330	23·260	22·850	22·600	23·000	23·620	23·760	24·000	23·750	23·400	23·090	22·800
29	22·260	22·390	22·400	22·200	22·510	22·550	22·700	22·850	22·950	22·880	22·890	23·020
30	23·280	23·320	23·340	23·400	23·800	24·320	24·610	24·810	24·350	24·020	23·740	23·360

THERMOMETER OF SMALL HORIZONTAL FORCE.

SEPTEMBER, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	78°8	78°6	78°6	79°0	79°2	79°4	79°8	79°2	79°8	80°0	80°4	80°5
2	79·2	78·0	78·0	78·0	78·4	79·3	80·0	80·2	81·2	82·2	82·0	81·2
3	77·6	77·6	76·6	77·2	77·2	78·0	79·2	79·2	80·0	79·7	80·0	78·4
4												
5	78·8	77·2	77·0	76·0	76·0	77·2	77·8	78·2	78·5	79·2	79·9	79·8
6	78·4	78·8	78·0	77·8	77·8	78·0	78·0	77·0	77·8	78·4	78·8	79·1
7	77·6	77·6	77·5	76·4	77·0	77·3	76·0	77·0	77·2	76·6	77·4	77·6
8	74·5	74·0	74·0	74·0	74·0	73·6	73·2	72·8	73·2	74·0	74·0	74·0
9	75·2	75·2	75·0	75·0	75·3	76·0	76·2	77·0	78·0	78·2	78·4	77·8
10	76·5	76·5	76·6	77·0	77·2	76·2	78·0	78·6	78·8	80·0	80·4	80·3
11												
12	78·5	78·2	78·0	78·2	79·3	80·0	80·4	81·8	82·2	82·6	82·5	82·2
13	78·5	78·4	78·4	78·6	79·4	79·8	80·0	81·2	82·0	82·4	82·5	82·5
14	77·6	77·6	77·8	78·0	78·2	79·6	79·9	80·2	81·2	82·0	82·0	81·2
15	78·5	78·0	78·0	78·0	79·2	79·8	80·2	81·4	82·0	82·4	82·5	82·4
16	78·0	78·0	77·8	78·0	78·4	79·2	80·0	81·6	82·2	82·6	82·6	82·0
17	78·3	78·0	78·0	78·0	79·3	80·0	81·2	82·0	83·0	83·4	83·4	83·6
18												
19	78·0	78·0	77·8	77·9	78·0	79·2	80·0	80·4	81·4	82·0	82·4	82·0
20	77·2	76·8	76·0	76·4	77·2	78·0	79·0	80·0	80·0	80·8	81·6	81·8
21	77·4	77·2	77·2	77·4	78·0	78·4	79·8	80·3	81·0	82·0	82·2	82·0
22	78·2	78·0	78·0	78·0	79·0	79·0	80·0	80·0	81·0	81·8	82·0	82·1
23	78·0	77·8	77·6	77·9	78·0	78·4	79·8	80·1	81·2	81·2	81·6	82·0
24	79·1	77·0	76·0	76·0	76·6	77·4	78·0	79·0	80·0	80·5	81·2	81·6
25												
26	77·6	77·4	76·2	76·3	77·2	78·0	79·4	80·1	80·4	80·8	81·9	82·0
27	78·4	78·0	77·8	78·0	79·0	80·0	80·8	82·0	82·6	83·0	83·6	83·4
28	79·1	79·0	77·8	77·2	77·5	78·1	79·6	80·3	81·8	80·8	80·8	80·9
29	76·8	76·6	76·4	76·8	78·0	78·4	80·0	80·4	80·8	81·0	81·6	80·4
30	76·8	76·6	76·4	77·3	77·8	78·2	79·7	80·5	82·0	82·4	82·6	83·2

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
OCTOBER, 1847. 1	23·050	22·900	22·990	23·000	23·090	22·850	23·000	23·100	23·200	23·240	23·290	23·800
2												
3	23·540	23·480	23·500	23·420	23·400	23·400	23·400	23·500	23·400	23·460	23·620	23·700
4	23·490	23·600	23·700	23·670	23·610	23·600	23·650	23·700	23·700	23·800	23·810	23·920
5	23·260	23·400	23·420	23·300	23·040	23·200	23·400	23·400	22·900	23·180	23·250	23·210
6	22·800	23·100	23·100	23·150	23·200	23·250	23·400	23·300	23·310	23·320	23·420	23·650
7	23·100	23·280	23·200	23·240	23·300	23·300	23·300	23·700	23·700	23·790	23·800	23·790
8	23·020	23·100	23·380	23·000	23·680	23·100	23·100	22·900	23·300	23·520	23·100	23·100
9												
10	22·510	22·600	22·410	22·360	22·110	22·100	21·900	22·300	22·530	22·440	22·480	22·480
11	22·300	22·500	22·550	22·420	22·500	22·300	22·300	22·250	22·800	22·690	22·500	22·400
12	22·540	22·600	22·800	22·800	22·400	22·400	22·600	22·600	23·000	23·300	22·900	23·200
13	20·260	20·490	18·790	18·130	18·270	19·200	19·720	20·400	20·210	20·220	20·700	20·980
14	21·180	21·020	20·830	20·800	20·900	21·000	21·200	21·300	21·400	21·600	21·680	21·880
15	20·400	21·000	20·740	20·950	20·800	20·900	21·200	21·700	21·700	21·410	21·120	21·300
16												
17	21·290	21·200	20·840	20·910	21·260	21·500	21·800	21·900	21·800	21·880	21·890	21·910
18	20·920	20·980	20·660	20·230	20·200	21·500	21·700	21·600	21·600	22·200	21·980	21·930
19	21·680	21·320	21·120	21·410	21·090	21·100	21·800	21·700	21·800	21·980	21·820	21·900
20	21·600	21·780	21·850	21·750	21·720	21·650	21·800	22·000	21·800	21·800	22·000	21·840
21	21·900	21·800	21·800	21·800	21·760	21·850	21·200	22·000	22·000	22·080	22·180	22·300
22	21·380	21·300	21·200	21·130	21·320	21·600	21·600	21·650	21·600	21·490	21·800	21·880
23	15·600	12·590	7·900	9·260	12·595	12·150	11·900	13·200	16·850	15·260	16·000	17·310
24												
25	16·400	17·260	16·200	15·800	17·620	17·600	17·550	19·000	18·700	18·400	18·420	18·600
26	18·500	18·890	19·100	19·200	19·200	19·000	19·100	19·400	19·310	19·400	19·580	19·750
27	19·200	19·380	19·650	19·700	19·840	19·800	19·850	20·000	20·110	20·110	20·110	20·220
28	19·900	20·000	20·100	20·000	19·930	20·000	19·850	19·900	20·100	20·250	20·220	19·990
29	21·140	21·750	20·600	19·550	19·600	20·200	19·300	19·700	19·800	19·800	20·120	20·120
30												
31	19·960	20·180	20·080	19·890	19·700	20·000	20·100	19·900	19·600	19·500	19·600	19·805

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
OCTOBER, 1847. 1	83°7	83°1	82°0	82°0	81°8	81°6	81°2	80°6	80°2	80°2	80°0	79°6
2												
3	83·4	83·0	82·4	82·0	82·0	81·8	80·8	80·8	80·6	80·3	80·3	80·2
4	82·4	82·0	81·7	80·4	80·8	80·0	80·0	80·0	80·0	79·7	79·4	79·0
5	83·2	83·2	82·4	82·0	81·5	80·8	80·2	80·0	80·0	79·9	79·5	79·2
6	83·4	83·1	82·0	81·9	81·5	80·0	80·0	80·0	80·0	79·2	79·0	79·0
7	83·4	82·8	82·0	81·6	81·2	80·4	80·2	80·0	80·0	79·4	79·0	79·0
8	83·2	82·0	81·9	81·2	81·2	80·6	80·6	80·2	80·0	80·0	79·6	79·2
9												
10	86·0	85·2	84·0	83·8	83·6	82·4	82·0	82·0	81·0	80·4	80·0	80·0
11	85·4	84·5	83·7	83·2	83·0	82·2	82·0	81·6	81·2	81·0	80·8	80·8
12	86·0	85·9	85·0	84·4	84·0	84·0	84·0	83·6	83·0	82·3	82·0	81·6
13	87·0	86·4	86·0	85·9	85·4	84·6	84·0	83·6	82·6	82·2	82·0	81·6
14	85·6	84·8	84·0	83·3	83·0	82·0	82·0	81·2	81·0	80·8	80·4	80·0
15	82·8	82·5	82·1	82·0	82·0	81·2	80·6	80·4	80·0	80·5	80·4	80·0
16												
17	85·3	85·0	84·2	84·0	83·6	83·0	82·4	82·0	82·0	82·0	81·0	80·8
18	85·1	84·6	84·1	84·0	83·9	83·4	82·6	82·0	82·0	82·0	81·6	81·0
19	85·6	85·0	84·0	83·6	83·2	82·6	82·2	82·0	82·0	81·4	80·6	80·5
20	85·2	84·8	84·0	83·9	83·2	83·0	82·0	82·0	80·6	80·0	80·0	80·0
21	83·6	83·2	82·4	82·0	82·0	82·0	82·0	81·6	81·0	80·8	80·8	80·4
22	84·2	84·0	83·4	82·2	82·6	81·2	82·0	81·0	80·0	79·6	79·6	80·0
23	85·6	85·8	84·2	83·6	83·1	83·0	82·1	82·0	82·0	81·9	81·9	81·6
24												
25	84·7	84·0	83·5	83·3	83·5	83·0	82·8	82·2	82·2	82·0	82·0	81·6
26	88·0	86·6	85·8	84·8	84·0	83·4	83·2	83·0	83·0	82·4	82·4	82·0
27	87·8	86·3	86·0	85·8	85·2	84·2	84·0	83·2	82·0	81·0	81·8	81·8
28	85·5	85·4	84·0	83·6	83·3	82·2	82·0	81·0	81·2	81·2	82·0	79·8
29	86·4	85·2	84·0	83·5	82·8	82·2	82·0	80·8	80·8	80·4	80·1	79·8
30												
31	85·3	84·4	83·8	83·4	83·2	82·2	82·0	82·0	81·4	81·4	81·5	81·6

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

OCTOBER, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	23·520	23·560	23·720	24·150	24·360	24·700	24·850	24·800	24·500	24·100	23·620	23·150
2												
3	23·620	23·820	23·830	23·800	24·020	24·450	24·850	24·800	24·600	24·180	23·740	23·400
4	24·000	24·100	23·860	23·600	23·700	24·350	24·700	24·900	24·700	24·000	23·400	23·300
5	23·200	23·300	23·180	23·000	23·210	23·580	24·350	24·450	24·100	23·710	23·305	22·880
6	23·890	23·800	23·700	23·700	23·870	24·400	24·950	25·100	24·700	24·130	23·700	23·240
7	23·900	24·000	24·050	24·070	24·500	26·000	26·600	27·100	26·000	24·350	24·020	23·500
8	23·100	23·300	23·800	23·910	24·300	24·800	25·350	25·550	25·050	24·850	24·840	23·390
9												
10	22·120	22·380	22·510	22·620	22·310	22·710	23·000	23·100	23·050	22·920	22·540	22·350
11	22·380	22·400	22·600	22·530	22·900	23·400	23·600	23·450	23·300	22·920	22·700	22·390
12	23·280	23·400	23·350	23·420	23·360	23·300	23·500	23·040	22·300	21·640	20·980	20·420
13	21·100	21·220	21·400	21·440	21·730	22·150	22·400	22·250	22·100	21·800	21·480	21·320
14	21·930	21·780	21·900	22·000	22·500	22·950	23·280	23·180	23·100	22·700	21·820	20·960
15	21·580	21·700	21·380	21·500	21·600	21·900	22·400	22·500	22·100	21·740	21·690	21·300
16												
17	22·020	22·120	22·100	22·350	22·370	22·850	22·820	22·550	22·400	21·400	20·920	20·890
18	22·000	21·900	21·900	21·920	22·500	22·900	23·305	23·200	22·650	22·290	22·000	21·810
19	22·200	22·240	22·320	22·300	22·600	22·650	22·780	22·680	22·390	22·100	21·800	21·600
20	21·790	22·200	22·150.	22·220	22·600	23·300	23·600	23·490	23·100	22·740	22·400	22·100
21	22·450	22·520	22·640	22·900	23·240	23·610	23·720	23·100	22·800	22·500	22·090	21·520
22	21·900	22·070	22·100	21·980	21·240	23·850	24·350	24·400	22·550	21·420	14·860	15·900
23	17·080	16·360	16·510	16·990	17·420	17·850	18·450	20·800	18·500	18·780	19·290	17·925
24												
25	18·460	18·420	18·620	18·880	19·320	19·700	19·750	19·800	19·750	19·120	18·900	18·700
26	19·060	19·900	19·880	19·910	19·970	20·510	21·090	21·040	20·600	20·100	19·610	19·430
27	20·300	20·300	20·210	20·180	20·360	20·610	20·800	20·550	20·350	20·220	20·200	20·100
28	20·190	20·000	20·130	20·260	20·490	20·780	20·840	20·930	20·750	20·550	20·400	19·900
29	20·200	20·300	20·400	20·550	20·800	21·215	21·500	21·025	20·200	20·000	19·200	18·800
30												
31	19·700	20·200	20·210	20·200	20·150	20·530	20·650	20·600	20·400	19·980	20·000	19·780

THERMOMETER OF SMALL HORIZONTAL FORCE.

OCTOBER, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	79°5	79°4	79°0	78°7	79°4	80°0	81°0	81°2	82°2	83°0	83°6	84°0
2												
3	80·4	80·0	79·8	80·0	80·2	81·2	82·0	82·7	84·0	84·0	84·0	83·6
4	78·8	78·0	78·0	78·4	79·4	80·0	81·0	82·0	82·0	83·0	83·6	83·6
5	78·8	79·0	78·0	78·2	79·6	80·0	80·4	81·9	82·2	83·0	83·8	83·7
6	78·0	78·0	78·0	78·0	78·8	80·0	80·6	81·4	82·2	83·0	83·2	83·2
7	78·6	78·6	78·2	78·4	79·2	80·0	80·4	81·7	82·0	83·0	83·4	83·7
8	79·0	78·8	78·6	79·2	80·0	80·8	80·0	83·0	83·8	84·5	84·6	84·5
9												
10	79·6	79·4	79·2	78·6	79·8	80·6	82·0	83·6	84·4	83·2	86·0	85·9
11	80·2	80·0	80·0	80·6	81·4	82·2	81·4	85·0	86·0	86·4	86·4	86·4
12	80·5	80·4	80·1	80·2	80·4	81·9	83·4	84·0	85·4	86·4	87·6	87·8
13	80·4	80·0	80·0	80·3	81·0	81·6	82·0	83·8	84·0	85·0	85·4	85·6
14	79·5	79·0	78·0	78·0	78·2	79·6	80·0	81·2	82·2	82·5	82·4	82·5
15	79·6	79·2	78·5	78·5	79·2	80·0	80·2	82·0	83·4	83·6	84·0	84·0
16												
17	80·8	80·6	80·0	80·0	80·2	81·6	82·1	83·5	82·0	83·0	85·2	85·5
18	81·0	81·0	81·0	81·0	81·2	82·0	82·6	84·0	84·4	85·0	85·6	85·2
19	80·5	80·0	79·7	79·4	79·9	80·7	81·9	82·8	84·2	84·8	85·2	85·6
20	79·9	78·8	77·4	77·2	77·8	78·0	79·4	80·0	81·2	82·8	83·0	83·6
21	80·0	80·0	79·7	79·9	80·2	81·3	82·0	82·1	83·0	84·0	84·4	84·3
22	79·9	79·4	79·4	79·4	80·0	80·2	82·0	82·8	84·0	84·8	85·9	86·0
23	80·8	80·8	80·8	80·8	81·4	82·0	84·0	84·8	86·0	85·5	84·8	84·4
24												
25	81·6	81·0	80·4	80·6	81·2	82·0	83·0	84·0	84·4	85·4	86·0	86·0
26	82·0	82·0	81·8	81·6	81·9	82·0	83·4	84·0	86·0	86·8	86·8	87·4
27	81·6	81·0	80·6	80·4	80·5	80·6	82·0	84·0	84·6	85·0	85·5	85·5
28	79·8	79·2	78·0	78·2	79·9	80·4	82·0	83·5	84·0	84·0	85·5	85·6
29	79·5	78·8	78·0	78·0	79·3	80·0	81·4	82·4	84·0	87·0	85·8	86·0
30												
31	81·5	81·0	80·3	80·4	81·3	82·0	82·4	83·0	83·4	84·0	85·0	84·3

SMALL HORIZONTAL FORCE MAGNETOMETER (*in Scale readings*).

NOVEMBER, 1847.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	19·480	19·150	18·300	16·560	17·170	19·000	19·400	19·500	19·400	19·620	20·200	19·800
2	19·020	19·100	19·190	19·300	19·390	19·450	19·600	19·900	19·800	20·400	20·600	20·500
3	18·860	18·990	19.210	19·300	19·500	19·700	19·900	19·850	19·800	19·800	19·850	19·900
4	20·400	20·620	20·680	20·690	20·590	20·550	20·600	20·650	20.950	20·900	21·000	21·040
5	21·380	21·290	21·440	21·420	21·450	21·350	21·300	21·300	21·400	21·300	21·400	21·400
6												
7	20·900	20·930	20·810	20·800	20·620	20.600	20·500	20·500	20·700	20·650	20·700	20·800
8	19·230	19·140	19.000	18·740	19·250	19.500	19·600	19.500	19·900	19·800	19.850	20·100
9	19·120	18·950	19·000	19·500	19·200	19·040	19·650	19·600	19·800	20·000	20·100	19·900
10	19·000	19·000	19·230	19·050	18·310	19·300	19·000	19·400	19·750	19·800	19·700	19·700
11	18·300	18·500	18·750	18·880	18·700	19·100	19·150	19·200	19·400	19·500	19·700	19·800
12	18·220	18·650	18·750	18·790	19·000	19·000	19·000	19·150	19·400	19·500	19·600	19·400
13												
14	19·120	19·200	19.280	19·550	19·100	19.500	19·120	19·400	19.800	19·400	19·400	19·700
15	18·300	18·700	19·060	19·100	19·500	19·800	19·500	19·400	19.650	19·700	19·800	19·700
16	18·340	18·560	18·350	18·320	18·200	18.400	18·750	18·650	18·700	18·700	19.100	19·050
17	18·200	18·540	18·740	18·700	18·810	19.000	19·000	19·100	19·350	19·400	19·550	19·600
18	18·500	18·560	18·150	18·310	18·910	19.200	19·000	19·100	19·100	19·240	19·170	19·520
19	18·300	18·700	18·810	18 840	19·000	19·300	19·350	19·300	19·700	19·350	18·450	17·900
20												
21	18·200	18·280	18·400	28·420	18·400	18·400	18·400	18·500	18·700	18·945	19·600	18·900
22	18·660	18·990	19·310	18·960	19·220	21·400	19·500	17·700	18·500	16·050	16·400	16·100
23	15·250	15·600	15·970	16·120	16·190	16·500	16·300	16·700	16·750	16·800	16·920	16·940
24	16·690	16·890	17·100	17·200	17·600	17·800	18·000	17·900	18·100	18·000	18.020	19·120
25	16·350	16·120	16·600	17·650	16·900	17.000	16·200	16·000	17·900	16·700	17.090	16·800
26	16·000	16·050	16·900	16·700	17·005	17.050	18·150	17·950	18·200	18·225	18·280	18·100
27												
28	18·700	18·650	18·700	18·550	18·500	18·500	18·500	18·900	19·000	19·350	19·150	19·100
29	17·850	17·840	18·050	18·150	18·200	18·300	18·300	18·350	18·350	18·300	18·400	18·650
30	18·100	18·220	18·400	18·450	18·600	18·600	18·600	18·600	18·650	18·550	18·770	18·680

THERMOMETER OF SMALL HORIZONTAL FORCE.

NOVEMBER, 1847.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	84°1	84°0	83°4	82°0	80°6	80°0	79°4	79°4	79°4	79°5	79°6	79°6
2	81·1	82·0	81·9	81·5	81·0	80·2	80·0	80·0	80·0	78·0	76·0	76·0
3	82·4	82·3	82·1	81·9	81·4	80·6	80·0	80·0	80·0	80·0	80·0	79·9
4	78·0	77·2	76·6	76·6	76·4	76·0	76·0	76·0	75·8	75·2	75·0	74·0
5	72·0	72·0	72·0	72·0	72·0	72·2	72·6	72·8	73·0	73·5	73·5	73·2
6												
7	75·2	74·4	74·0	73·8	73·1	72·0	72·0	71·0	71·2	71·0	71·0	71·0
8	77·2	76·4	75·9	75·3	75·0	74·0	73·4	72·6	72·6	72·4	72·0	72·0
9	78·0	78·0	77·5	76·8	76·3	76·0	75·0	75·0	75·0	76·0	74·0	73·8
10	77·9	76·7	76·0	75·8	76·0	75·0	74·0	74·0	74·0	73·0	73·0	72·8
11	79·6	78·3	78·0	77·5	76·8	76·0	75·0	74·0	74·0	73·4	73·0	72·0
12	80·0	80·0	79·2	78·1	78·0	76·1	76·0	76·0	75·9	74·0	73·5	73·8
13												
14	80·4	80·0	79·6	79·2	78·0	77·9	77·5	77·0	76·2	76·0	75·6	75·5
15	80·4	80·0	79·8	79·0	79·0	78·0	76·0	76·0	76·0	75·0	74·8	74·0
16	80·1	80·0	79·0	78·1	76·0	75·0	76·0	75·0	74·5	74·0	74·0	74·0
17	80·6	80·0	79·0	78·0	78·0	77·0	76·0	75·0	74·0	74·0	73·8	72·4
18	80·2	80·0	79·0	78·1	77·8	76·0	74·2	74·0	73·5	73·0	72·4	72·0
19	80·0	80·4	80·0	79·9	79·9	78·0	76·2	75·5	75·0	75·0	74·4	74·0
20												
21	80·0	80·0	79·0	78·4	78·0	77·0	76·0	75·9	75·0	75·0	74·6	74·0
22	80·0	79·1	76·0	77·4	76·6	76·9	76·0	75·0	74·0	74·0	74·0	74·0
23	79·9	79·2	78·8	77·8	76·7	76·0	75·9	75·0	74·0	74·0	73·9	73 9
24	80·0	79·6	78·4	78·0	77·7	76·0	76·0	75·5	75·0	75·0	74·9	74·6
25	79·9	79·8	79·1	78·0	77·8	77·2	76·5	76·0	76·0	75·8	75·5	75·1
26	79·8	79·0	78·0	77·7	77·8	76·5	76·0	76·0	75·0	74·4	74·0	74·0
27												
28	76·0	75·0	74·0	73·2	72·2	71·9	71·0	70·0	70·0	70·0	69·4	69·0
29	75·0	74·2	74·0	73·2	72·7	71·0	70·0	69·0	68·9	68·0	68·0	67·4
30	77·9	78·0	76·4	76·0	76·0	76·0	75·0	74·0	74·0	74·0	74·0	74·0

NOVEMBER, 1847.

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	$12^h.0$	$13^h.0$	$14^h.0$	$15^h.0$	$16^h.0$	$17^h.0$	$18^h.0$	$19^h.0$	$20^h.0$	$21^h.0$	$22^h.0$	$23^h.0$
1	19·750	19·660	19·600	29·060	19·140	19·000	19·400	19·200	18·900	18·600	18·620	18·900
2	20·500	20·480	20·870	21·100	21·100	21·100	20·700	20·410	19·900	19·400	19·080	18·980
3	19·900	20·100	20·290	20·400	20·660	21·115	21·200	20·650	21·100	21·100	20·700	20·390
4	21·020	21·050	21·300	21·470	21·800	21·930	22·200	22·050	22·060	22·200	22·150	21·590
5	21·490	21·680	21·600	21·800	22·290	22·400	22·500	22·600	22·250	21·400	20·650	20·830
6												
7	20·920	21·000	21·100	21·500	21·790	21·830	21·590	21·150	20·650	20·150	19·700	19·650
8	20·020	20·380	20·720	21·100	21·450	21·600	21·450	21·550	20·500	19·800	19·150	19·200
9	19·920	20·200	20·080	20·000	20·060	19·820	20·130	20·360	20·200	19·650	19·380	19·180
10	19·680	19·540	19·700	19·800	19·850	19·600	19·900	19·900	19·400	18·960	18·300	18·170
11	19·660	19·500	19·850	20·040	20·400	20·390	20·400	20·450	20·050	19·550	19·700	18·370
12	19·380	19·480	19·660	20·120	20·450	20·700	20·500	20·225	19·700	19·400	18·920	18·700
13												
14	19·700	20·000	19·790	19·970	20·120	20·190	20·270	19·970	19·650	18·200	18·100	18·150
15	19·680	19·720	19·860	20·850	20·800	20·800	20·900	20·450	19·500	18·940	18·700	18·600
16	19·100	19·000	19·200	19·200	19·300	19·440	19·110	18·500	18·350	18·350	18·120	18·180
17	19·800	19·740	20·180	20·340	20·760	20·750	20·000	19·850	19·300	18·000	17·700	18·200
18	19·600	19·600	19·790	19·970	20·090	20·000	19·790	19·520	19·600	18·300	17·700	18·040
19	18·400	18·500	18·640	16·920	18·380	19·800	19·450	19·125	18·900	18·670	18·200	18·100
20												
21	18·920	19·010	19·200	19·350	19·500	19·690	20·000	19·750	19·300	18·990	18·950	18·730
22	16·740	17·520	18·400	18·800	18·620	15·500	15·650	15·750	16·800	15·420	15·100	15·100
23	17·100	17·660	17·650	18·190	18·310	18·400	18·350	18·150	17·500	16·900	16·800	16·680
24	18·980	19·000	19·040	19·140	19·270	17·750	18·400	18·350	18·200	18·300	17·700	17·100
25	16·860	16·800	16·700	17·000	17·380	17·350	16·810	16·590	16·375	15·780	16·110	16·340
26	28·300	18·300	18·400	18·400	18·700	19·260	19·400	19·500	19·050	18·680	18·200	18·080
27												
28	19·100	19·200	19·400	19·450	19 310	19·340	19·400	19·420	19·100	18·640	18·100	17·960
29	18·640	18·720	18·710	19·080	19·220	19·300	19·390	19·100	18·650	18·680	18,380	18·120
30	18·760	18·900	19·000	19·500	19·670	19·700	19·600	19·400	18·800	18·680	18·090	17·910

NOVEMBER 1847.

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	$12^h.0$	$13^h.0$	$14^h.0$	$15^h.0$	$16^h.0$	$17^h.0$	$18^h.0$	$19^h.0$	$20^h.0$	$21^h.0$	$22^h.0$	$23^h.0$
1	79°6	79°0	79°0	78°4	79°0	80°0	80°0	80°6	82°0	82°0	82°1	81°4
2	75.6	76·6	76·0	—	76·4	78,0	79·3	80·7	82,0	82·0	83·0	83·5
3	79·8	79·2	78·4	79·0	79·2	80·0	80·8	81·4	80·2	80·2	79·9	78·4
4	74·0	73·8	73·5	73·2	73·0	72·6	73·2	73·0	73·0	72·0	72·0	72·0
5	73·2	72·4	72·3	72·8	73·4	74·0	76,0	76·8	77·4	77,6	77,6	77·5
6												
7	69·4	69·2	69·0	69·9	70·2	71·9	72·3	74,0	75·4	76·0	76·4	77·6
8	72·0	72·0	71·6	71·6	72·0	72·8	74·4	75·8	76·4	76·8	78·0	78·0
9	73·0	72·4	71·9	71·8	73·0	73·5	74·6	76·0	77·0	77·8	78·0	78·0
10	72·4	72·0	72·0	72·0	72·0	73·0	75·0	76·5	78·0	78·0	78·2	79·5
11	72·0	72·0	71·8	71·8	72·0	73·3	74·4	76·0	78·0	78·2	79·4	80·0
12	73·8	73·6	73·6	73·5	73·9	75·0	76·0	77·5	79·0	80·0	81·2	81·4
13												
14	75·0	74·0	74·0	73·9	74·0	74·2	75·9	77·6	78·9	79·9	80·0	80·2
15	74·0	73·6	73·3	73·3	73·3	74·0	75·0	76·5	78·0	79·6	79·9	80·2
16	73·8	73·4	73·0	72·3	72·6	74·0	76·0	78·0	80·0	80·0	80·0	80·6
17	73·0	72·4	72·0	72·0	72·0	72·2	74·5	76·2	78·0	79·0	80·0	80·8
18	71·8	71·6	71·7	71·7	72·0	72·0	74·2	76·0	78·0	79·0	79·9	80·0
19	73·4	73·0	72·0	72·4	73·0	74·0	75·0	76·0	77·5	77·5	79·2	80·0
20												
21	73·9	73·2	72·0	72·1	72·4	73·7	75·0	76·0	78·0	79·6	80·0	80·0
22	73·4	73·0	72·3	72·0	72·1	73·3	74·9	76·0	77·5	78·2	79·4	79·9
23	73·6	73·0	72·0	72·0	72·0	73·0	74·3	75·8	77·5	78·2	78·9	80·1
24	74·0	73·6	72·8	72·8	72·8	73·2	74·5	76·0	78·0	78·8	79·2	80·0
25	74·2	74·0	73·2	73·0	73·2	73·9	75·0	76·0	78·0	79·4	79·9	80·0
26	73·6	73·2	72·8	72·6	73·2	74·0	76·0	77·0	78·0	78·0	78·0.	78·0.
27												
28	68·0	68·0	67·6	66·9	67·6	69·0	70·3	71·9	73·0	74·0	74·3	75·0
29	67·0	66·0	66·0	66,0	67·0	68.0	70·0	72·0	74·0	75·5	76·4	77·6
30	73·4	72·3	73·0	73·4	73·6	74·2	75·9	77.2	78·6	80·0	80·9	81·0

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
DECEMBER, 1847. 1	18·110	18·300	18·710	18·31 0	18·980	19·100	19·000	19·100	18·800	19·000	18·940	18·576
2	18·970	18·980	19·250	18·900	18·880	18·600	18·850	18·500	17·800	17·380	17·500	17·300
3	17·000	17·460	17·900	17·360	17·500	17·850	17·700	17·400	17·700	17·680	17·790	17·850
4												
5	17·850	17·859	18·000	17·980	18·100	18·200	18·200	18·250	18·290	18·400	18·350	18·300
6	17·700	17·990	19·200	18·160	18·150	18·200	18·000	17·900	17·950	18·000	18·040	18·040
7	17·440	18·150	18·380	18·270	18·420	18·375	18·375	18·200	18·200	18·080	17·950	18·350
8	16·300	16·460	16·800	17·140	16·800	16·700	17·000	17·500	17·600	17·400	17·350	17·600
9	16·950	17·190	17·310	17·040	17·050	16·800	17·200	17·500	17·510	17·830	18·050	18·150
10	17·060	17·490	17·700	17·470	17·550	17·250	17·150	17·600	17·150	17·350	17·600	18·240
11												
12	17·820	17·150	17·140	17·000	17·150	17·250	16·900	17·250	17·900	17·650	17·670	17·750
13	17·960	17·700	17·640	17·400	17·380	18·050	17·900	17·850	18·100	18·120	18·100	18·200
14	17·200	17·100	17·290	17·350	17·350	17·650	17·550	17·500	17·750	17·820	17·750	17·910
15	17·900	18·130	17·800	17·500	17·450	17·750	17·800	17·800	18·000	18·070	18·080	18·150
16	17·600	17·730	17·920	17·900	17·900	17·920	17·850	18·500	18·400	18·300	18·180	18·300
17	17·900	17·400	17·320	18·100	13·600	13·400	11·760	12·225	13·000	12·700	14·250	14·450
18												
19	—	14·020	12·800	11·960	11·650	12·800	11·400	12·500	11·350	10·100	10·020	13·340
20	8·970	7·400	6·710	7·430	8·250	9·280	9·000	8·100	8·700	11·400	10·800	11·550
21	13·550	13.920	14·150	14·420	14·480	14·300	14·510	14·800	15·100	15·000	15·100	15·100
22	15·560	15·640	15·640	15·000	15·550	15·900	16·000	16·050	16·250	16·600	16·760	16·750
23	15·600	15·720	16·380	16·420	16·800	16·500	16·800	17·000	16·900	17·250	16·800	16·900
24	16·400	16·700	16·910	17·000	17·070	—	—	—	—	—	—	—
25												
26	17·500	17·480	17·660	17·600	17·830	17·250	17·200	17·200	17·900	17·685	17·750	17·500
27	17·440	17·440	17·360	17·340	17·380	17·120	17·300	17·400	17·400	17·270	17·600	17·750
28	16·930	17·150	17·340	17·350	17·150	17·000	17·000	17·350	17·500	17·300	17·400	17·300
29	17·640	17·470	17·630	17·350	16·900	16·500	16·760	16·150	17·100	16·000	16·140	16·200
30	16·480	16·670	16·850	16·800	16·810	16·750	16·720	16·750	16·700	16·600	16·700	16·700
31	16·570	16·740	17·040	16·800	16·500	16·600	16·660	16·900	16·700	16·840	17·050	16·940

THERMOMETER OF SMALL HORIZONTAL FORCE.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
DECEMBER, 1847. 1	81°2	81°0	80°0	79°4	78°1	78°0	77°0	76°5	76°0	76°0	75°9	75°3
2	80·4	79·9	79·0	78·1	78·0	78·0	77·9	77·0	77·0	77·0	76·0	75·8
3	80·1	79·7	79·0	78·0	77·6	77·0	76·9	76·0	76·0	75·3	74·0	74·0
4												
5	80·0	79·2	78·0	78·0	77·8	77·5	76·5	76·0	76·0	76·0	75·6	75·0
6	83·0	81·0	80·0	79·0	78·0	78·0	77·0	76·0	76·0	75·6	75·0	74·0
7	83·7	82·0	80·0	79·2	78·0	78·0	77·2	76·5	76·5	76·2	76·0	75·8
8	82·0	80·0	79·6	78·0	77·2	76·5	76·0	76·0	75·5	75·0	74·0	74·0
9	79·2	78·0	76·4	76·0	76·0	75·5	74·0	74·0	73·5	73·0	72·6	72·0
10	78·0	77·4	76·6	76·0	75·7	75·0	74·0	74·0	74·0	73·0	72·8	72·0
11												
12	75·6	74·2	74·0	73·0	72·0	71·9	70·5	70·0	69·0	68·4	68·0	68·0
13	78·2	77·4	76·0	76·0	75·8	74·5	74·2	73·9	73·0	73·0	72·7	72·7
14	79·4	78·0	77·0	76·0	75·6	74·5	74·0	73·0	72·0	71·9	71·3	70·8
15	79·6	78·0	77·0	76·7	75·7	74·5	74·0	73·5	72·9	72·0	71·7	71·7
16	77·0	76·2	75·0	74·5	74·2	73·9	72·2	72·4	72·0	72·0	71·0	70·0
17	77·5	76·4	75·6	75·0	74·0	74·0	72·5	72·2	72·0	71·8	71·0	70·0
18												
19	—	79·6	78·0	77·7	77·0	76·4	75·9	75·0	74·5	74·0	73·7	73·7
20	79·0	78·9	77·9	77·0	76·0	76·0	75·9	74·7	74·0	74·0	74·0	73·9
21	79·0	78·0	76·4	76·0	75·8	75·0	75·0	74·8	74·4	74·0	74·1	74·0
22	77·4	76·3	76·0	75·6	74·4	74·5	74·0	74·0	74·0	73·9	73·0	72·6
23	77·1	76·2	76·0	75·7	74·4	74·4	74·4	74·0	74·0	74·0	74·0	73·8
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	77·2	76·0	75·7	74·5	74·0	73·6	72·9	72·2	72·0	71·8	71·7	70·2
27	79·4	79·0	78·0	77·0	76·0	75·3	75·0	75·0	74·0	73·8	73·0	72·6
28	80·0	79·7	78·0	77·8	77·0	76·0	76·0	76·0	75·8	74·7	74·0	74·0
29	80·4	80·0	79·0	78·0	77·0	77·0	76·0	76·0	75·6	75·6	75·0	74·6
30	80·2	79·6	78·0	77·7	77·0	76·2	75·9	75·0	74·5	74·2	74·1	73·9
31	81·7	80·4	79·0	78·2	77·8	77·1	76·2	76·0	76·0	76·0	75·0	75·0

SMALL HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

DECEMBER, 1847. Göttingen Mean Time	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	18·600	18·600	19·300	19·680	19·650	19·750	19·650	18·650	17·900	18·100	19·500	18·300
2	17·950	18·080	18·100	18·120	18·370	18·840	18·900	18·060	17·200	16·840	17·100	17·140
3	18·250	18·800	18·930	19·000	19·140	19·300	19·350	18·700	18·400	18·180	18·000	17·940
4												
5	18·150	18·080	18·190	18·840	18·860	18·840	18·760	18·550	17·600	16·930	16·700	16·960
6	18·060	18·100	18·100	18·300	18·700	18·800	18·810	19·050	18·450	17·900	17·440	17·000
7	18·150	18·200	18·160	18·610	18·780	19·000	19·100	18·240	17·800	17·080	16·400	16·510
8	17·650	17·850	17·820	18·300	18·400	18·500	18·200	17·900	17·250	16·890	17·250	16·920
9	18·110	18·400	18·500	18·860	18·790	18·650	18·670	18·600	17·700	17·400	17·400	17·160
10	18·100	17·820	17·800	17·900	18·100	18·600	18·200	17·910	17·900	17·800	17·700	17·200
11												
12	17·890	17·970	16·070	18·400	18·490	18·510	18·640	18·300	17·600	18·060	18·100	18·140
13	17·800	18·050	18·200	18·450	18·350	18·150	18·290	17·900	17·575	17·600	17·830	17·600
14	18·040	18·150	18·300	18·490	18·540	18·570	18·680	18·440	18·400	17·900	17·900	18·040
15	18·150	18·320	18·430	18·540	18·520	18·200	17·990	17·500	17·095	17·100	17·350	17·600
16	18·370	18·400	18·460	18·660	18·760	18·540	18·400	18·340	17·575	16·770	16·100	16·140
17	14·500	17·730	17·920	17·900	17·900	17·000	16·380	15·850	15·210	14·620	14·850	14·500
18												
19	13·900	13·700	14·160	12·900	13·910	14·710	13·660	13·870	13·700	11·460	10·550	8·760
20	12·200	13·100	12·620	12·300	12·320	12·400	12·910	13·125	13·350	13·400	13·300	13·500
21	15·260	15·400	15·470	15·400	15·600	15·590	15·700	15·800	16·050	15·800	15·400	15·500
22	16·450	17·080	17·050	17·280	17·450	17·609	18·250	18·800	18·400	17·790	17·000	16·025
23	16·920	16·950	17·100	17·300	17·360	17·800	16·090	18·270	17·850	17·280	16·640	16·240
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	16·450	17·600	17·790	17·990	18·260	18·500	18·700	18·860	18·400	17·960	17·600	17·470
27	17·800	17·840	17·950	17·920	17·740	17·600	17·680	17·550	17·500	17·200	17·100	17·000
28	17·480	17·400	17·740	17·760	17·790	17·930	17·860	17·730	17·560	17·250	17·200	17·900
29	16·300	16·450	17·000	17·150	17·400	17·370	17·120	16·800	16·275	15·600	16·400	16·400
30	16·400	16·290	16·860	16·990	17·040	16·600	16·740	16·630	16·000	15·600	15·400	16·290
31	16·900	16·820	16·700	16·720	16·810	16·780	16·960	16·750	16·500	16·150	16·500	16·820

THERMOMETER OF SMALL HORIZONTAL FORCE.

DECEMBER, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	74°0	74°0	74°0	74·0	74°8	75°5	76°5	78°0	79°9	80°0	80°9	81°0
2	75·0	74·0	73·4	74·0	74·6	75·3	76·0	77·6	79·0	80·2	81·0	81·0
3	73·9	73·6	73·2	73·7	74·0	75·0	77·0	78·5	80·0	81·8	81·9	81·9
4												
5	74·0	74·0	74·6	74·0	74·1	75·4	77·0	79·0	80·5	81·0	82·2	83·7
6	74·0	73·7	73·4	73·8	74·1	75·5	77·0	78·6	80·0	81·9	82·0	82·9
7	75·0	74·0	74·0	74·0	74·2	75·4	76·6	78·4	80·0	81·7	82·0	82·0
8	73·7	72·0	72·0	72·0	71·9	72·5	74·0	76·0	77·5	78·9	79·4	79·8
9	72·0	71·9	71·4	71·0	71·4	72·0	73·1	74·3	76·0	77·7	78·0	79·0
10	71·8	71·3	70·2	70·3	71·0	71·9	73·0	75·0	76·2	77·0	77·7	77·9
11												
12	68·0	67·2	67·0	67·6	68·0	70·0	72·0	74·0	76·5	78·0	78·0	79·0
13	72·5	72·0	71·7	71·7	72·0	73·0	74·5	76·0	78·0	78·3	79·2	79·8
14	70·4	70·0	70·0	70·0	70·3	71·9	73·0	75·0	76·0	77·9	78·0	79·4
15	71·1	70·2	70·0	69·8	70·0	70·5	71·7	73·0	74·5	75·9	76·2	77·0
16	69·7	68·3	68·4	68·0	69·0	69·9	70·6	72·0	74·0	75·9	76·8	77·7
17	70·0	76·2	75·0	74·5	74·0	69·5	71·5	73·0	74·9	76·0	77·7	78·2
18												
19	72·4	72·0	72·0	72·0	72·2	73·2	74·6	76·0	77·2	78·0	78·2	78·4
20	73·8	73·6	72·4	73·0	73·7	74·5	75·5	76·9	77·9	78·0	78·6	78·7
21	73·9	73·7	73·9	73·0	73·4	74·0	75·3	76·4	76·5	77·8	77·9	78·0
22	72·4	72·0	71·8	71·7	72·0	73·0	74·1	75·2	76·0	77·2	77·4	77·7
23	73·2	72·4	72·4	72·4	73·0	73·9	74·7	76·0	77·2	78·0	78·5	79·0
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	70·0	70·0	70·0	70·0	70·4	71·6	72·5	74·2	76·0	77·9	78·9	79·6
27	72·2	72·1	72·0	72·0	72·1	73·2	74·5	76·0	78·0	79·0	79·8	80·0
28	73·6	72·0	71·9	71·4	72·0	73·7	75·4	77·0	79·0	80·0	80·4	81·0
29	74·0	74·0	73·9	72·4	73·8	74·0	75·8	77·4	79·0	80·4	81·0	80·7
30	73·9	72·3	72·4	73·0	73·7	74·9	76·0	78·0	80·0	81·4	81·9	82·0
31	74·5	74·0	73·8	74·0	70·1	75·2	77·0	78·2	79·2	80·2	81·2	80·4

VERTICAL FORCE MAGNETOMETER (in Micrometer readings).

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
JANUARY, 1847.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	1·19·20	1·34·20	2·12·40	2·14·35	2·12·90	1·20·50	1·09·50	1·09·50	2·16·80	0·21·20	0·05·70	1·26·00
2												
3	1·34·00	1·43·00	1·43·00	1·14·25	1·31·80	2·12·90	3·16·25	2·31·30	2·39·90	2·04·25	1·44·10	1·43·75
4	2·06·00	2·02·00	1·34·70	2·06·60	2·28·55	1·31·35	2·10·30	2·08·10	3·20·50	2·00·10	1·40·60	1·38·80
5	2·20·40	2·46·40	3·46·70	4·00·10	4·23·60	4·13·50	4·13·50	3·30·50	3·40·80	2·49·90	2·25·25	2·48·35
6	3·04·75	3·21·40	3·19·30	4·07·70	4·21·80	4·06·15	4·14·70	3·35·10	4·42·90	2·23·75	2·27·90	3·13·75
7	3·18·60	3·29·00	3·19·10	4·03·80	4·03·80	3·43·20	4·07·00	4·07·00	4·31·80	2·34·00	2·30·45	3·09·40
8	3·28·20	4·11·50	4·25·30	4·33·00	4·36·00	4·36·00	4·36·00	5·03·70	5·14·30	2·32·20	3·10·50	4·06·65
9												
10	4·01·10	4·13·20	4·13·20	4·08·55	4·25·75	4·03·45	4·21·10	4·11·70	4·36·90	2·49·55	3·13·75	3·35·65
11	3·25·50	4·11·10	5·13·70	5·13·70	4·49·35	5·13·60	5·06·85	4·44·70	4·44·70	5·05·50	2·38·60	2·45·20
12	3·25·65	4·03·30	4·12·30	4·32·50	5·01·00	5·14·50	5·10·40	5·07·20	5·09·40	3·17·70	2·19·40	3·14·65
13	4·27·15	4·18·50	4·25·10	5·05·40	5·49·20	5·20·95	5·07·20	4·48·60	5·28·00	4·14·50	4·06·00	3·48·90
14	4·19·45	4·38·40	5·09·50	5·35·30	5·13·40	5·10·95	5·36·05	5·19·90	6·08·80	4·25·40	4·37·30	4·20·40
15	5·22·00	5·18·80	6·23·50	6·24·50	6·21·90	6·17·10	5·47·80	6·12·10	7·00·00	5·40·55	5·20·00	5·06·80
16												
17	5·37·70	6·02·20	6·35·70	6·26·25	6·32·90	6·41·25	6·04·15	6·41·20	8·11·40	4·35·50	5·10·20	7·07·60
18	7·10·65	7·11·90	7·21·30	7·17·60	7·08·80	7·01·40	7·05·55	7·19·00	8·07·40	4·45·95	6·38·60	7·39·50
19	7·04·40	7·30·70	8·21·40	9·08·90	9·08·90	9·05·55	8·09·50	8·01·00	7·47·30	6·07·00	8·00·00	8·15·90
20	7·15·20	7·17·30	8·35·50	9·07·00	9·14·50	8·49·00	8·22·85	8·48·60	8·10·10	6·11·50	7·14·50	7·27·50
21	7·15·85	7·42·70	8·06·70	8·32·75	9·21·50	9·10·50	8·40·70	9·00·20	8·34·20	6·36·00	6·08·00	7·41·90
22	7·27·45	7·11·70	7·28·20	7·22·20	7·23·50	7·04·15	6·01·70	7·17·80	7·03·00	6·08·50	6·47·60	7·26·10
23												
24	7·24·70	7·38·10	7·40·70	8·11·40	8·05·75	7·49·55	7·34·90	7·38·10	7·42·10	6·42·95	6·15·05	7·46·65
25	8·10·85	7·41·40	7·41·70	8·30·05	8·48·80	8·28·10	8·12·30	7·39·70	8·11·40	7·14·95	7·06·50	8·06·40
26	7·46·00	8·15·50	8·39·60	8·21·60	8·01·90	7·47·45	7·31·35	7·48·60	9·08·40	8·06·85	7·39·35	9·30·75
27	8·38·35	8·25·20	8·49·00	8·31·00	8·31·00	8·44·10	9·14·60	9·00·50	8·42·70	7·48·75	8·01·10	8·30·95
28	7·46·80	8·09·90	9·10·00	9·37·86	9·33·35	10·25·01	10·29·20	9·40·30	9·07·60	8·35·50	8·18·35	9·17·55
29	8·10·80	8·38·50	10·09·40	10·16·10	9·48·90	10·13·35	9·11·95	10·04·00	9·10·80	8·49·60	8·22·30	8·13·00
30												
31	8·34·90	8·26·90	9·11·70	9·23·70	9·12·25	7·49·00	6·47·55	7·41·20	8·38·80	8·31·50	9·0·00	9·11·95

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
JANUARY, 1847.	°	°	°	°	°	°	°	°	°	°	°	°
1	84·5	83·0	83·5	83·0	82·5	81·7	81·7	81·7	78·1	80·0	82·0	84·0
2												
3	85·3	83·4	83·0	82·5	82·0	80·6	80·6	79·8	77·5	79·3	82·0	83·7
4	84·0	82·4	82·0	81·6	81·0	81·5	80·7	80·0	77·9	79·0	81·0	84·0
5	83·0	82·4	83·4	82·0	81·5	81·6	81·1	80·3	77·9	79·3	80·8	81·5
6	82·3	82·4	82·9	81·5	81·5	81·5	80·5	80·3	77·9	78·3	80·0	82·6
7	81·5	81·0	82·0	81·3	81·3	80·5	79·7	79·0	76·9	78·5	81·5	82·6
8	82·2	82·1	82·2	81·5	80·9	79·8	79·6	79·2	76·6	77·5	80·3	81·7
9												
10	83·1	82·3	82·0	81·0	80·5	80·0	79·4	78·9	76·7	77·5	80·1	81·7
11	83·3	82·5	81·8	80·5	79·5	79·0	78·2	77·8	77·8	75·2	78·7	80·5
12	81·8	81·0	81·3	80·5	79·7	78·5	77·8	77·0	75·0	77·0	79·5	81·7
13	82·2	81·5	82·8	81·0	79·7	79·7	78·8	78·0	75·9	77·0	79·5	81·5
14	82·7	81·7	81·6	81·3	81·5	80·7	80·7	79·2	77·0	78·5	80·6	82·2
15	83·6	82·9	83·5	82·5	82·0	80·5	80·0	79·9	77·5	79·5	81·5	83·0
16												
17	83·7	83·4	83·0	82·3	81·0	80·5	80·6	79·5	78·0	79·7	81·7	83·6
18	84·2	83·0	83·5	83·5	82·5	81·7	80·7	79·9	78·0	79·5	82·0	84·2
19	85·4	84·4	84·0	83·0	82·5	81·7	82·0	80·5	78·5	80·0	82·5	84·4
20	85·3	84·5	84·5	83·7	83·3	83·0	81·7	80·9	78·4	79·8	82·0	83·7
21	84·2	83·9	83·5	82·2	81·5	80·8	80·7	79·8	78·3	79·5	82·0	83·6
22	84·3	82·5	83·4	83·0	82·6	81·9	82·0	80·7	78·5	80·0	82·5	84·2
23												
24	85·7	84·5	85·3	85·0	84·0	83·3	82·2	81·7	80·0	81·0	82·9	84·5
25	85·3	84·5	84·5	84·0	83·5	83·0	82·8	82·8	80·5	81·7	83·1	84·0
26	82·2	81·9	81·0	80·5	80·5	80·0	80·2	78·5	75·5	76·5	78·4	78·7
27	79·4	78·4	77·5	77·0	75·6	75·2	74·4	74·0	72·1	74·0	75·9	77·2
28	78·2	77·8	77·4	75·5	75·0	75·2	74·5	74·5	72·7	73·5	76·0	77·7
29	79·4	78·9	79·0	79·4	78·5	78·0	78·0	76·8	72·8	73·5	75·0	76·2
30												
31	75·4	75·0	73·5	73·0	72·0	72·2	73·2	72·0	70·1	72·5	75·0	76·9

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

FEBRUARY, 1847.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
	t d	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*
1	8·31·75	8·06·50	8·34·25	8·49·35	9·03·70	9·02·65	9·21·10	9·45·20	9·19·40	8·19·60	8·42·00	10·24·20
2	9·44·60	9·05·20	9·05·20	9·41·30	10·32·60	11·18·80	11·03·65	11·18·70	11·03·80	10·18·65	10·32·65	10·41·10
3	9·34·85	9·32·20	10·47·00	10·13·60	11·07·00	11·16·05	11·10·15	11·21·20	10·45·90	9·38·50	9·27·00	10·14·10
4	9·43·40	9·33·50	10·06·80	10·20·25	10·33·50	10·17·60	10·34·10	10·40·10	10·02·00	8·11·00	8·18·00	8·49·50
5	8·49·60	6·10·20	9·16·80	9·20·00	9·34·60	9·32·45	9·21·10	9·25·00	9·21·00	8·04·00	8·04·00	8·32·40
6												
7	9·48·10	9·22·90	9·38·95	10·11·55	10·04·00	9·30·10	9·43·30	10·24·70	10·39·20	9·40·60	10·15·20	11·20·20
8	10·43·20	10·47·40	11·11·00	11·15·90	11·15·90	11·30·70	11·15·65	11·27·20	12·06·50	11·31·40	11·17·60	11·38·90
9	1·14·20	1·06·00	0·24·53	0·24·55	1·25·55	2·21·00	1·46·50	2·39·50	3·01·30	1·48·25	1·45·05	3·08·10
10	1·49·50	2·04·60	3·05·70	2·18·40	3·07·60	3·11·65	3·03·80	2·33·40	3·24·50	2·42·30	2·42·30	3·17·30
11	2·41·90	3·20·40	3·34·00	4·02·10	4·30·60	4·11·55	4·34·40	4·07·10	3·42·50	2·35·65	2·34·60	3·05·55
12	2·43·00	3·03·30	4·16·60	4·10·70	4·30·60	4·37·20	4·01·60	3·36·50	4·19·80	3·12·00	3·30·20	4·44·30
13												
14	-0·19·60	-0·03·20	0·26·00	0·37·40	0·44·00	0·44·0	1·06·40	1·29·10	0·47·40	-0·04·00	-0·00·10	0·35·20
15	0·13·50	0·24·00	1·00·80	1·28·25	1·01·75	0·35·50	0·29·50	0·42·20	1·15·20	0·01·35	-0·11·25	1·41·60
16	1·21·00	1·05·20	1·05·20	1·15·30	1·36·60	1·42·40	1·30·75	1·29·50	1·04·10	-0·32·20	-0·08·20	1·28·50
17	1·06·00	0·44·30	1·16·00	1·27·80	1·36·90	1·29·00	1·37·50	2·04·80	2·04·80	-0·08·50	0·06·35	1·31·00
18	1·47·25	1·47·25	2·17·10	2·27·45	2·27·45	2·19·50	2·22·50	3·03·70	2·19·50	1·36·50	2·14·45	2·31·00
19	2·37·00	2·40.10	3·16·10	3·24·65	3·17·15	3·15.75	3·09·80	4·01·80	3·07·30	1·47·30	1·43·00	3·27·00
20												
21	3·05·10	3·21·90	3.31.10	3·25·90	3·46·20	4·32·00	4·19·00	4·30·50	4·08·90	2·27·50	2·21·50	3·24·50
22	3·28·50	3·23.80	3·28·50	4·37·50	4·39·50	4·14·00	4·23·55	4·11·70	5·12·90	3·09·40	2·23·75	3·38·50
23	4·08·25	4·17·70	4·48·00	5·03·80	4·43·10	4·31·50	4·25·80	4·35·80	4·46·00	4·10·00	2·48·50	3·23·00
24	4·05·00	4·21·10	4·42·50	5·23·15	4·27·50	5·06·70	5·06·70	5·25·00	4·31·70	3·33·35	4·06·95	4·23·90
25	4·37·00	4·25·50	5·30·40	5·47·00	5·47·00	5·41·30	5·47·50	5·47·50	5·33·10	4·38·30	4·37·20	3·11·90
26	3·00·00	3·17·10	3·36·10	4·00·00	3·42·50	3·31·10	3·43·00	4·10·00	3·43·10	3·17·20	3·27·30	3·34·20
27												
28	4·01·90	3·45·20	4·36.80	4·36·80	5·01·15	5·14·15	5·01·00	4·40·00	4·19·70	1·37·70	2·02·25	3·09·70

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

FEBRUARY, 1847.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	79°0	77°5	77°0	76°5	75°5	73°7	71°7	69°8	67°8	68°8	70°5	72°2
2	73·4	72·0	71·9	70·5	69·4	68·3	66·7	65·9	63·0	64·5	67·5	70·0
3	72·2	72·3	72·4	72·5	71·0	71·0	70·0	69·5	67·9	70·0	74·0	77·8
4	78·2	76·7	76·5	75·7	76·0	75·7	76·2	75·4	74·0	76·6	79·7	80·7
5	82·0	81·0	81·0	80·8	80·0	78·7	78·6	78·9	77·1	78·5	80·3	81·6
6												
7	80·4	80·0	80·0	79·5	79·0	78·3	77·6	77·1	75·8	77·0	78·3	78·7
8	79·7	78·8	79·0	78·5	78·5	77·6	77·7	77·5	75·5	76·3	77·8	78·9
9	80·3	79·3	79·5	79·5	79·0	78·6	78·2	78·3	76·9	78·1	80·0	81·2
10	82·3	81·6	81·4	81·0	80·5	80·6	80·2	79·8	78·0	79·5	81·3	82·7
11	83·5	82·5	83·1	82·5	81·8	81·5	81·5	81·4	79·6	80·6	82·3	83·7
12	84·2	83·4	83·3	82·5	82·0	81·8	81·0	80·9	78·9	80·0	81·5	81·0
13												
14	79·4	79·0	79·4	79·6	79·6	78·4	77·5	77·0	74·5	75·8	77·7	78·7
15	80·0	79·3	78·8	77·5	77·0	76·5	75·2	74·4	72·9	75·0	78·2	79·4
16	80·5	79·5	79·8	79·6	79·0	78·1	77·7	78·3	75·9	78·0	80·0	81·4
17	82·0	81·4	81·3	80·5	80·2	80·0	79·5	79·3	77·4	79·0	81·3	83·0
18	84·7	83·5	83·3	82·0	81·2	81·0	79·8	79·0	77·5	78·6	79·5	80·4
19	80·8	80·4	80·4	79·5	78·6	78·0	77·4	77·0	75·4	77·0	78·2	79·0
20												
21	80·9	80·4	80·5	80·0	80·0	79·0	78·5	78·1	76·5	78·2	82·0	84·0
22	84·7	83·8	83·5	82·5	82·0	81·4	81·0	80·4	78·4	80·0	81·5	82·5
23	83·5	82·0	81·8	81·2	80·5	80·0	79·0	78·5	77·1	78·4	79·5	80·7
24	82·0	80·9	80·4	79·6	79·5	78·1	77·0	76·9	75·2	77·3	78·3	79·5
25	81·0	80·0	79·9	79·5	79·0	78·5	77·3	76·7	75·5	77·5	78·6	80·1
26	81·5	80·3	80·0	79·4	79·5	78·5	77·5	77·0	75·9	77·6	78·6	80·3
27												
28	81·4	81·0	81·1	81·1	80·5	80·2	79·8	79·3	77·3	79·5	81·3	82·5

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings.)*

Göttingen Mean Time.		Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
		t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
MARCH, 1847.	1	4·35·00	4·23·80	5·11·90	5·28·30	5·39·80	5·16·85	4·44·55	6·16·60	4·19·00	3·04·00	3·16·40	4·38·90
	2	5·00·80	4·44·20	5·32·00	5·47·80	5·47·80	6·09·10	5·27·25	6·05·40	6·35·30	3·32·50	1·48·00	3·40·00
	3	4·34·05	5·08·70	5·14·00	5·04·00	5·19·60	5·40·90	6·06·50	5·32·40	5·45·90	4·00·00	2·35·95	3·33·85
	4	5·03·50	5·14·15	6·20·05	6·20·05	6·28·25	6·20·90	6·20·90	6·33·60	6·34·20	4·45·25	4·16·00	4·34·80
	5	4·41·45	5·06·70	6·10·30	5·14·00	5·31·60	5·26·65	6·25·80	6·33·50	6·12·40	4·11·90	3·23·90	4·42·50
	6												
	7	4·40·80	4·38·80	4·45·30	4·45·30	5·25·95	5·01·30	4·40·55	5·08·50	4·49·60	3·42·30	2·08·90	4·08·90
	8	5·20·70	4·46·20	5·30·00	5·43·95	6·03·75	6·08·75	5·31·85	5·12·80	6·10·50	4·30·50	3·13·50	4·32·20
	9	4·15·70	4·26·70	4·41·80	5·23·00	4·41·50	4·25·05	4·29·25	5·18·30	5·39·00	4·40·20	4·01·45	4·15·45
	10	4·40·30	4·16·30	4·41·00	5·16·60	5·28·10	5·20·25	5·38·00	5·31·80	6·14·50	5·38·50	4·11·40	5·43·70
	11	5·37·75	5·34·70	5·41·40	6·08·95	5·36·30	5·44·85	5·48·70	6·17·50	6·21·70	5·14·10	3·46·90	4·41·80
	12	4·38·30	5·25·80	6·14·50	6·46·15	6·46·15	6·33·70	6·27·50	6·36·30	6·31·00	6·02·00	4·45·50	5·27·60
	13												
	14	5·07·50	5·35·10	6.04.00	6·04·00	6·04·00	6·11·50	5·03·10	6·38·40	6·37·60	5·24·90	3·33·75	4·38·00
	15	4·42·50	4·31·60	5·35·30	5·27·25	5·35·45	6·08·50	5·22·00	5·22·00	5·37·60	3·39·50	3·02·30	4·41·00
	16	5·20·00	5·20·00	5·05·80	5·10·50	5·01·35	4·43·20	4·34·70	5·06·20	5·08·80	3·41·75	2·19·65	3·37·50
	17	3·47·50	4·23·30	3·35·00	4·46·00	5·05·70	5·19·50	5·03·50	5·38·50	5·19·50	4·08·60	3·28·50	5·23·50
	18	5·10·20	5·34·90	6·20·60	6·12·50	6·38·10	6·28·50	6·06·50	6·22·90	6·33·40	5·24·10	5·15·50	6·40·50
	19	6·13·95	6·33·70	5·41·00	6 41·80	7·15·40	7·23·45	8·00·25	7·42·70	6·38·20	6·39·50	6·10·00	6·39·90
	20												
	21	7·41·00	7·07·40	6·44·00	6·38·50	7·27·50	7·27·50	7·18·35	8·06·10	7·46·00	6·35·00	5·49·00	6·02·30
	22	6·11·40	5·27·60	5·26·80	6·12·30	6·37·20	5·44·70	5·37·10	7·20·10	6·47·70	4·04·50	3·20·25	5·33·10
	23	6·34·05	5·48·65	6·38·80	6·43·50	7·13·70	7·25·60	7·08·10	7·08·10	6·00·50	3·46·0	3·40·00	6·07·40
	24	6·28·25	6·20·40	6·00·90	5·30·50	6·29·00	7·00·15	8·06·85	6·47·80	6·31·10	4·40·00	4·44·10	6·21·40
	25	6·33·80	7·42·40	7·17·70	7·14·25	7·27·50	7·07·75	7·13·55	8·08·00	7·07·20	5·42·50	5·04·00	6·42·10
	26	7·10·80	7·22·70	6·34·00	7·18·00	7·29·25	7·31·00	7·13·35	7·20·30	6·23·90	4·49·50	4·46·60	6·05·51
	27												
	28	7·31·50	7·15·20	8·46·10	8·46·10	8·46·10	8·34·85	8·26·15	8·33·20	7·30·00	5·44·35	6·27·65	7·23·90
	29	6·44·75	6·24·60	6·40·10	6·40·10	6·40·10	6·15·55	5·47·85	6·37·70	5·22·20	3·31·90	4·00·90	6·12·20
	30	6·26·35	6·02·40	6·02·40	5·46·05	6·18·50	5·49·75	7·05·95	7·03·70	5·38·60	3·36·80	3·29·10	6·15·35
	31	6·42·00	6·08·00	6·49·40	7·06·10	7·06·10	6·43·30	6·31·55	8·03·30	6·30·30	5·24·25	4·14·50	5·24·50

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.		Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
		°	°	°	°	°	°	°	°	°	°	°	°
MARCH, 1847.	1	83·7	83·0	83·0	82·3	81·6	81·5	81·3	80·9	79·2	81·0	82·3	83·5
	2	84·2	84·0	84·0	82·6	82·5	81·8	81·5	80·5	79·4	81·3	82·7	83·9
	3	85·2	83·8	83·8	83·0	82·9	82·7	82·4	81·8	80·0	81·7	83·0	84·7
	4	86·0	84·6	85·0	84·1	84·4	83·8	83·2	82·0	80·3	82·0	83·5	84·6
	5	85·7	85·0	84·9	84·5	83·5	82·7	82·2	81·4	79·7	81·7	83·6	84·6
	6												
	7	84·3	83·8	83·5	63·0	82·6	82·2	81·6	80·9	79·5	81·0	82·3	83·0
	8	84·2	83·4	84·0	83·0	82·5	83·1	81·8	81·5	79·7	81·0	82·1	83·2
	9	84·3	83·0	83·0	82·6	82·6	82·7	81·8	81·2	79·1	80·0	80·8	81·7
	10	82·3	81·0	81·8	82·0	81·7	81·6	81·0	81·0	79·0	79·5	80·7	81·6
	11	82·0	81·1	81·5	81·3	81·5	80·2	79·4	79·2	77·9	79·5	80·5	81·7
	12	83·2	81·9	82·4	82·2	81·2	80·9	80·6	79·9	78·6	80·6	82·0	83·5
	13												
	14	85·5	85·2	85·8	85·0	84·0	84·0	83·7	83·5	81·5	80·8	83·0	85·6
	15	86·6	87·0	87·3	86·3	85·3	85·0	84·0	83·0	81·8	84·5	87·0	88·2
	16	88·8	86·9	87·5	86·5	86·3	85·5	85·3	84·4	82·5	83·5	85·2	86·0
	17	85·9	85·0	85·8	85·5	84·5	84·6	84·5	84·5	82·5	83·5	85·4	85·5
	18	84·8	84·3	85·3	85·0	84·0	84·0	83·6	83·0	81·4	82·4	83·7	84·7
	19	85·3	84·0	84·9	85·0	84·0	83·7	83·6	83·8	81·7	83·1	83·6	84·7
	20												
	21	84·3	84·0	85·2	85·3	84·1	84·3	83·6	83·4	81·5	82·0	83·7	82·8
	22	83·2	83·6	84·9	85·3	84·1	84·2	83·7	82·8	81·8	83·3	84·7	86·4
	23	87·0	85·6	86·4	86·0	85·5	84·7	84·2	84·0	82·9	84·7	85·5	85·5
	24	86·3	85·7	85·9	86·0	85·2	84·7	83·6	84·0	81·5	83·6	86·0	86·5
	25	87·3	86·4	86·0	85·5	84·6	84·4	83·2	82·5	81·7	83·2	84·5	85·8
	26	87·0	85·9	86·0	86·0	84·5	84·2	83·7	82·5	81·2	83·0	84·4	85·5
	27												
	28	87·5	86·5	86·0	85·0	84·5	83·7	82·2	82·5	82·0	83·5	84·7	85·8
	29	87·0	86·0	86·2	85·0	84·5	84·5	84·4	82·2	82·0	83·6	84·5	85·3
	30	86·2	84·7	85·7	85·0	85·0	84·7	83·3	82·5	82·2	83·8	84·7	85·7
	31	86·7	85·5	85·8	85·5	84·6	84·6	83·6	83·3	82·8	84·0	85·5	86·5

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
	d	d	d	d	d	d	d	d	d	d	d	d
APRIL, 1847. 1	6·32·00	7·03·20	8·06·80	8·06·80	7·34·30	7·12·25	7·19·45	8·12·30	7·45·50	5·48·15	5·19·50	6·44·80
2	7·44·95	7·16·60	7·34·30	7·39·30	7·39·30	6·38·95	6·29·00	7·13·40	7·31·90	5·24·25	4·47·75	6·45·70
3												
4	6·42·50	6·37·40	8·11·60	8·09·50	7·11·85	7·22·00	8·04·70	8·28·50	7·31·40	5·20·50	5·39·20	5·0430
5	5·27·00	5·42·80	6·10·90	5.46.95	6·34·45	5·43·90	5.28·80	6·18·40	6·34·40	4·23·40	4·03·90	5·3620
6	6·15·10	5·33·40	6·22·60	6·13·20	6·48·50	5·37·80	5·37·80	6·20·00	6·18·70	5·09·80	4·32·30	6·19·10
7	6·34·70	6·00·00	6·44·10	6·44·10	6·44·10	6·44·10	7·04·40	6·38·00	6·03·00	5·21·20	5·09·90	7·25·10
8	6·48·05	6·36·00	7·10·70	7·04·65	6·12·40	6·83·70	6·36·20	7·24·90	6·45·00	4·30·20	5·11·15	6·12·55
9	6·13·25	6·34·80	6·46·90	6·42·40	7·03·05	6·33·35	6·44·50	7·21·30	6·43·40	5·17·80	5·03·25	7·25·00
10												
11	7·12·30	6·45·60	7·45·90	6·25·75	6·28·75	6·47·40	6·33·40	8·02·60	6·39·30	4·03·50	5·39·95	7·40·60
12	7·41·70	6·41·60	7·34·60	8·04·00	8·25·50	7·27.10	7·23·90	8·00·90	5·28·30	4·17·90	6·04·90	8·17·30
13	8·23·95	7·46·20	8·12·80	7.28.30	7·42·50	7·26·50	8·12·10	8·42·90	6·23·10	4·29·00	5·40·50	6·00·25
14	6·25·75	6·23·40	6·47·70	6·36·00	6·33·90	—	6·14·30	7·19·00	5·46·10	3·38·85	4·22·25	6·16·25
15	70·90·5	6·49·50	6·49·50	6·37·40	6·47·40	7·07·90	7·07·90	8·28·30	6·32·30	4·04·90	5·07·50	6·47·70
16	—	—	—	—	—	—	—	—	—	—	—	—
17												
18	10·12·20	8·49·20	10·07·70	9·08·50	9·24.20	8·42·85	8·03·45	9·23·80	8·03·90	6·26·00	7·01·30	9·10·00
19	9·10·95	8·27·70	9·29·30	8·06·90	8·06.90	8·13·15	8·13·70	8·25·20	7·17·80	4·31·75	5·27·40	7·37·70
20	7·48·25	7·06·00	7·23·00	7·36·75	8·04.50	10·25·05	10·35·45	10·49·00	9·14·30	7·34·80	9·15·10	10·33·45
21	11·18·50	12·10·70	11·33·10	11·17·75	12·05·70	12·19·05	12·29·00	12·20·80	10·30·80	8·20·50	10·07·40	11·25·00
22	11·47·05	11·27·80	12·25.80	13·09.35	12·16.40	12·25·25	12·25·25	13·07·00	10·39·30	9·33·60	9·35·05	10·47·10
23	12·09·75	11·41·30	12·13·30	12·21.25	12·10.00	12·01·85	11·25·50	12·21·00	10·47·20	9·32·25	10·01·30	11·10·75
24												
25	11·16·50	10·44·50	10·44·50	10·25.40	10·34·85	10·41·10	10·41·10	11·18·40	9·16·30	8·17·90	9·18·60	10·19·65
26	11·01·15	11·00·70	10·47·60	10·36·45	9·27·00	10·14·00	10·23·10	11·22·00	9·20·60	7·48·50	8·25·45	9·26·45
27	10·08·10	9·47·00	9·47·00	9.40.10	9·40.10	9·44·65	10·32·85	10·28·30	8·42·30	7·15·50	8·22·55	9·40·65
28	10·07·75	9·23.10	9·32·90	9·32·90	9·21·90	9·48·20	9·18·80	9·46·10	8·44·00	7·22·35	9·11·90	10·02·35
29	10·06·20	9·37·00	10·20·80	10·09.45	10·32·50	10·22·60	10·18·40	11·06·30	9·17·80	8·06·20	8·03·55	10·21·15
30	10·30·90	10·03·00	10·14·90	10·32·40	10·38·75	11·20·30	10·47·15	10·39·80	9·44·30	8·11·50	9·08·45	10·35·55

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
APRIL, 1847. 1	87·4	86·0	86·0	86·0	85·8	85·3	84·2	83·4	82·5	83·6	84·5	85·2
2	8·56	84.3	84·5	83.7	83.0	83·6	83.7	82.5	81.5	82.5	88.5	84.6
3												
4	85.7	84.5	84·9	84.5	84.4	84·4	83.6	82.0	81.4	83.2	85.0	86.6
5	87.6	86.2	86.5	86.5	86.1	85.6	85.7	83.5	83.0	84·5	86.5	87.0
6	87.9	86.5	87.5	87.0	86.5	86·6	86.2	84.5	83.9	85.5	87.0	88·0
7	89.2	87.9	87.4	86.5	85.5	85.2	85.0	85.0	84.0	84.5	86.0	87.8
8	88.0	86.9	87.2	86.9	86.0	85.5	85.3	84.0	84.0	85.3	86.0	86.7
9	87.8	86.5	87.3	86.5	86.0	86.5	84.8	83.5	83.5	85.2	86.0	86.7
10												
11	87.7	86.9	87.0	86.5	86.0	85.7	85.5	84.5	83.8	85.3	86.5	87.5
12	87.5	86.0	86.5	86.0	86.0	85.5	85.1	83.8	83.6	84.6	85.9	86.7
13	87.6	86.0	86.4	86.0	86.0	85.8	84.7	82.9	82.9	84.0	85.0	86.2
14	86.5	84.9	86.1	85.5	85.3	—	84.5	82.5	82.5	84.5	85.0	85.7
15	86.3	85.2	85.7	85.5	85.0	84.8	84.5	83.3	83.5	85.4	86.0	87.4
16	—	—	—	—	—	—	—	—	—	—	—	—
17												
18	90.4	88.8	89.8	89.0	88.5	88.5	88.2	86.9	84.6	86.0	87.0	88.2
19	86.5	86.5	86.7	85.5	85.5	85.8	86.2	84.5	83.4	82.6	83.5	85.2
20	85.6	85.0	86.0	86.0	85.0	85.5	85.3	84.4	83.9	84.5	85.5	87.2
21	87.7	86.4	87.0	86.5	86.0	85.7	85.7	84.5	84.7	85.8	87.0	87.3
22	87.1	86.4	88.0	89.0	87.5	87.5	87.6	86.4	85.2	85.7	87.0	87.8
23	88.7	87.3	87.5	87.0	86.6	86.5	86.7	86.1	84.9	85.7	87.5	87.8
24												
25	88.4	87.0	87.7	87.0	86.6	86.2	86.2	84.9	85.4	86.6	87.7	88.5
26	88.7	87 9	88.3	87.5	88.0	87.0	86.2	84.5	84.5	85.5	86.5	87.4
27	87.8	86.2	86.9	86.3	85.9	85.7	85.5	84.0	83.8	85.8	86.6	87.8
28	88.2	86.2	86.4	86.0	85.3	85.2	84.7	83.6	83.9	84.8	86.0	87.0
29	87.6	86.2	86.3	85.5	85.3	85.2	84.9	83.9	84.0	85.0	86.0	87.4
30	87.8	86.4	86.9	86.0	85.5	85.3	85.0	83.2	83.9	85.7	87.1	87.6

MAY. 1847.

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1												
2	10·05·10	10·20·20	10·14·50	10·10·10	10·34·80	10·35·50	10·14·20	10·40·70	10·29·90	7·31·35	6·48·60	9·16.95
3	10·16·20	10·01·70	10·09·30	10·02·35	9·42·25	9·24·15	9·31·10	10·24·40	10·14·90	7·13·95	7·13·95	8·41·50
4	9·46·35	9·46·40	10·05·00	10·13·20	10·04·65	9·48·00	10·14·40	10·17·70	9·44·50	7·00·00	7·01·10	8·35·10
5	10·13·00	9·34·50	9·44·90	9·44·90	9·24·90	9·24·50	9·03·40	10·21·80	8·48·00	8·01·40	8·04·30	9·40·00
6	11·13·00	10·19·80	10·30·20	10·36·00	10·16·50	9·43·50	9·35·80	10·17·90	8·46.80	7·28·30	7·14·50,	8·34·70
7	9·47·25	9·24·00	10·11·20	9·30·50	9·30·50	9·25·55	9·26·70	10·24·40	9·00·80	7·06·00	9·22·45	10·49·50
8	11·12·30	1·09·00	10·26·30	10·18·60	10·36·35	11·09·45	12·11·25	11·42·00	11·11·10	9·37·90	9·48·50	10·35·90
9												
10	12·13·10	11·30·20	12·37·60	12·37·60	12·25·75	12·00·85	12·00·85	12·22·10	11·20·60	9·19·90	10·27·30	11·29·00
11	12·13·65	11·24·50	12·08·50	12·08·50	12·17·50	11·49·60	12·15·35	12·25·90	11·14·30	9·22·75	9·30·80	11·13·60
12	12·09·00	11·32·40	11·22·30	11·14·30	11·14·30	12·13·30	11·45·35	12·14·30	10·32·70	8·24·40	9·18·35	11·28·75
13	11·35·90	10·28·20	10·40.70	10·24·30	10·17·00	10·24·30	10·34·85	11·12·40	8·45·70	8·28·30	9·12·62	9·31·30
14	11·10·25	10·03·40	9·18·60	9·33·85	9·33·85	9·33·85	9·33.85	10·40·40	9·26·50	7·47·20	8·19·05	9·17·70
15	10·25·05	10·10·00	10·41·00	11·10·25	10·09·75	11·14·25	12·12·00	12·42·90	10·43·40	10·06·00	10·22·75	12·34·30
16	13·06·50	12·23·70	13·39·60	14·25·90	13·37·00	14·48·25	15·09·00	14·31·80	13·23·00	11·13·60	12·10·20	12·44·40
17												
18	10·26·50	10·06·50	10·06·50	9·48·00	9·42·90	9·35·85	9·17·85	10·28·30	9·08·70	6·36·90	7·16·50	8·04·60
19	9·34·90	9·30·10	9·34·80	9·47·30	10·12·50	10·40·00	11·14·80	11·47·60	10·17·40	8·24·50	8·38·25	9·46.20
20	11·30·45	12·03·30	11·30·90	12·27·05	12·07·00	11·34·25	11·14.20	12·23·50	11·41·20	10·00·45	10·10·40	11·18·05
21	12·06·70	12·16·30	12·09·00	12·09·00	12·13·40	12·25·75	12·20·05	12·36·60	11·25.10	10·37·10	11·16·50	12·17·50
22												
23	12·48.70	13·15·80	13·49·70	13·17·00	13·42·85	14·08·65	14·34·50	14·11.20	12·32·80	11·33·70	11·23·20	13·06·30
24	14·46·10	14·13·20	13·47·50	13·47·50	13·10·25	13·02·00	14·09·00	14·18·30	13·26·80	12·23·45	13·13·50	13·41·25
25	14·12·30	13·43·20	13·43·20	11·25·75	14·25·75	14·25·75	14·20·75	14·34·00	13·10·20	11·48·90	12·10·00	12·34·80
26	13·24·80	13·05·50	13·05·40	13·14·20	13·14·20	13·25·30	13·04·55	14·02·80	13·10·00	12·10·40	13·24·25	15·05·65
27	14·45·10	14·31·20	14·45·40	15·48·10	16·10·70	16·39·90	16·25·55	16·08.70	13·44·40	12·09·45	13·07·20	14·18·00
28	14·42.05	15·06·00	15·46·80	15·19·40	16·31·40	15·38·05	15·45·30	15·45·30	15·12·90	13·11·50	13·30·10	14·37·10
29												
30	15·44·50	15·32·10	15·24·20	15·38·35	15·38·35	16·03·45	16·03·45	16·36·90	16·04·70	12·33.75	13·01·40	14·48·50
31	16·18·50	16·25·30	16·21·60	16·40·35	16·40·35	16·05·85	17·01·30	17·24·10	16·30·40	15·41·00	15·09·40	16·37·20

MAY, 1847.

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1												
2	86°5	87°5	88°0	87°5	87°0	86°4	86°8	84°0	84°4	85°8	87°0	88°6
3	89·5	88·3	88·3	87·5	86·2	86·2	85·7	83·9	84·3	85·5	86·8	87·8
4	88·2	86·5	87·4	87·0	86·5	86·2	85·8	84·2	84·4	85·3	86·5	88·0
5	89·2	87·5	87·5	87·0	86·5	86·6	86·6	84·5	84·4	85·5	86·6	88·0
6	88·7	87·3	87·2	86·5	86·2	85·8	85·7	84·5	84·7	85·8	87·0	88·2
7	88·7	87·3	88·0	87·5	87·0	86·7	87·0	85·4	87·3	86·5	87·5	89·2
8	89·8	88·2	86·3	85·0	87·0	87·2	86·8	85·3	85·3	86·0	87·0	88·2
9												
10	89·9	88·6	88·6	88·0	87·0	87·3	87·0	85·5	85·8	87·0	88·0	89·7
11	90·7	88·8	88·5	88·5	88·0	87·7	86·8	85·2	85·5	87·0	88·0	89·4
12	90·2	88·5	88·5	87·5	88·0	87·7	88·2	85·3	85·5	86·3	87·5	88·6
13	89·5	88·0	88·3	87·0	86·5	86·2	85·6	84·5	84·9	85·7	86·5	87·6
14	87·6	86·5	87·2	87·0	86·5	86·5	86·5	85·0	84·9	86·2	87·3	88·2
15	88·6	86·9	87·7	87·5	87·4	86·7	86·3	85·4	85·5	86·5	87·5	88·8
16	89·6	88·3	88·3	87·5	87·3	86·6	86·7	85·5	85·8	87·0	87·5	88·8
17												
18	88·5	87·5	88·0	87·6	87·5	87·3	86·8	86·0	85·6	85·5	86·5	87·6
19	88·6	87·1	88·0	87·5	87·5	86·8	85·7	85·8	85·9	87·0	88·0	88·0
20	88·7	87·2	87·8	87·0	86·5	86·4	87·0	85·5	85·4	87·0	88·0	88·7
21	88·7	87·5	88·5	88.1	88·5	88·0	88·3	86·5	86·9	88·3	89·4	89·7
22												
23	90·8	89·5	89·5	89·0	88·5	88·2	88·5	86·8	87·0	88·0	89·2	90·2
24	90·6	89·5	90·0	89·5	89·5	88·6	88·5	87·2	87·2	89·2	89·5	90·2
25	89·2	88·3	90·0	89·6	89·2	88·7	88·6	86·9	85·6	86·5	87·0	87·7
26	87·3	86·5	88·5	88·0	88·0	87·3	87·0	85·5	85·5	85·5	85·5	87·2
27	87·0	86·3	88·3	88·0	87·5	86·8	86·2	85·2	84·5	86·0	87·1	88·3
28	87·9	87·2	88.2	87·0	86·0	86·1	85·7	84·0	84·0	84·5	85·5	85·5
29												
30	85·9	85·0	86·0	86·0	85·5	86·1	86·0	84·8	84·5	86·0	87·0	87·7
31	88·2	87·2	88·3	88·0	88·5	88·2	87·8	86·0	85·9	87·0	88·0	88·2

JUNE, 1847.

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	-0·05·50	-0·41·80	-0·48·00	-0·30·60	-0·26·30	-0·26·30	-0·47·70	-0·38·45	-1·06·75	-0·37·85	-1·09·20	-1·22·50
2	-1·40·20	-2·14·50	+2·16·20	-2·16·30	-1·49·60	-1·39·90	-1·39·90	-1·39·90	-1·39·90	-1·32·50	-1·36·30	-1·26·75
3	-1·23·20	-1.31·50	-1·39·50	-1·33·80	-1·18·00	-1·44·10	-1·26·00	-2·16·90	-2·01·00	-1·42·70	-1·10·25	-1·01·55
4	-0·30·90	-0·18·90	-0·39·80	-0·37·80	-0·08·00	-0·34·40	-0·34·40	-0·34·40	-0·39·85	-1·01·20	-0·41·30	-0·36·95
5												
6	-0·19·80	-0·28·70	-0·36·10	-0·26·90	-0·26·90	-0·30·30	-0·30·25	-0·50·35	-0·17·05	-0·12·50	-0·12·50	0·10·12
7	0·23·10	0·08·30	0·14·90	1·44·60	2·08·70	2·08·70	2·08·70	2·08·70	2·08·70	2·07·30	2·10·05	2·10·05
8	2·05·60	1·09·90	0·33·40	0·33·40	0·22·80	0·22·80	0·11·30	0·11·30	0·33·90	0·46·50	0·42·35	1·07·05
9	-0·24·75	-0·20·80	-0·11·40	0·02·80	0·17·50	0·37·80	0·37·80	0·37·70	0·37·80	0·45·80	1·21·90	2·08·20
10	-0·02·05	-0·12·70	-0·05·30	-0·15·90	-0·15·90	0·15·90	0·01·50	0·18·65	0·24·50	0·49·15	0·49·15	1·00·30
11	0·48·85	0·22·40	2·21·50	1·41·50	2·01·40	1·26·70	1·26·70	1·36·05	1·36·05	1·36·05	1·48·85	2·02·40
12												
13	0·27·50	0·27·50	0·34·30	0·34·30	0·45·70	1·33·70	1·33·70	1·33·70	1·33·70	1·33·70	1·24·60	1·27·50
14	0·37·45	1·17·40	0·25·80	0·39·70	0·36·70	0·31·00	0·31·00	0·23·00	0·44·85	1·48·50	1·43·00	1·43·00
15	0·23·55	0·29.20	0·38·30	0·38·30	0·36·30	1·02·10	1·35·65	1·35·65	1·35·65	1·45·80	2·25·85	2·28·63
16	2·24·45	2·19·20	1·49·30	1·12·20	1·23.10	1·37·25	1·37·25	1·28·00	1·28·00	2·02·40	2·15·65	2·15·65
17	2·26·25	2·16·10	1·27·20	0·46·20	0·30·30	0·23·90	0·15·50	0·15·50	0·15·50	0·14·10	0·09·00	0·14·20
18	0·01·00	0·01·50	0·09·20	-0·00·70	0·15·20	0·37·45	0·45·15	1·05·10	0·47·10	1·04·15	1·22·25	1·42·65
19												
20	0·09·00	0·01·80	0·48·80	1·09·50	1·09·50	1.19·60	1·28·30	1·28·30	2·00·60	2·04·85	1·47·95	1·37·90
21	-0·28·95	-0·27·40	0·01·10	-0·28·80	-0·39·50	-0·21·25	-0·21·25	-0·21·21	0·27·35	0·12·70	0·19·15	0·26·65
22	-0·17·95	-0·17·95	-0·13·10	-0·20·60	-0·20·60	-1·17·90	-1·19·15	-1·00·25	-1·00·25	-1·00·25	-0·24·75	-0·17·60
23	-0·45·50	-1·19·70	-1·28·10	-1·36·20	-1·12·40	-1·05·80	-0·44·50	-0·10·75	-0·23·25	1·14·70	0·15·70	0·05·83
24	-0·37·50	-1·22·90	-1·23.20	-1·36·60	-1·29·30	-1·29·30	-1·10·90	-1·10·90	-0·46·75	-0·26·65	0·25.00	0·39·00
25	-0·12·10	-0·15·90	-0·38·50	-1·04·00	-0·38·00	-0·17·25	-0·17·25	0·02·05	-0·42·45	-0·48·45	-0·44·05	-0·27·15
26												
27	0·13·70	-0·15·80	-0·48·00	-1·12·00	-0·38·50	0·02·80	0·02·80	0·31·40	0·45·50	0·35·50	0·43·35	1·09·50
28	-0·09·45	-0·37·70	-0·43·50	-1·04·50	-1·04·50	-1·08·20	-1·01·00	-1·01·00	-1·08·15	-0·25·15	-0·25·15	-0·01·28
29	1·05·70	0·47·60	0·35·20	0·35·20	0·35·20	0·35·20	0·20·45	0·20·41	0·20·45	0·28·20	1·02·20	1·02·20
30	1·43·95	1·09·80	0·38·30	0·38·30	0·36·30	1·03·25	1·05·25	1·16·50	1·04·05	1·13·10	1·03·80	0·36·50

JUNE, 1847.

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	87°3	86°9	86°9	87°2	87°9	87°5	88°0	87°6	87°0	87°0	86°6	86°2
2	82·6	82·0	81·9	83·0	83·7	84·0	84·0	83·5	84·0	84·0	83·6	84·7
3	83·7	82·9	82·9	83·5	84·0	84·2	84·5	85·5	85·0	85·2	84·8	84·7
4	86·2	85·9	85·8	86·4	86·8	86·5	86·5	86·5	86·4	86·2	86·0	86·0
5												
6	86·4	87·0	86·1	86·4	86·8	87·0	87·2	87·0	87·0	87·0	87·0	87·0
7	86·5	86·4	86·0	86·9	87·3	87·0	87·0	86·7	86·6	86·5	86·6	85·8
8	81·6	82·5	82·5	83·0	84·3	84·5	84·5	85·0	85·0	85·2	84·8	84·7
9	87·7	87·0	86·4	86·5	86·9	86·5	86·3	86·5	86·5	86·5	86·2	85·5
10	84·5	85·0	84·5	85·0	85·8	86·1	86·2	86·0	86·0	86·6	86·5	86·0
11	86·9	87·0	86·2	86·9	87·3	87·5	87·8	87·6	87·5	87·8	87·0	87·2
12												
13	83·5	82·5	82·5	83·3	84·0	83·7	83·5	84·0	83·5	83·7	83·2	83·1
14	84·7	84·9	84·9	85·4	85·7	85·5	85·6	85·5	85·5	85·5	85·4	85·2
15	87·8	87·5	86·7	86·7	86·9	86·5	86·2	86·2	86·0	86·2	85·7	85·7
16	88·0	87·5	86·9	87·4	87·5	87·0	87·0	86·5	86·5	86·8	86·7	86·5
17	81·9	81·9	82·4	83·5	84·2	84·5	84·6	84·5	84·7	85·2	85·5	85·5
18	88·4	88·4	87·5	87·9	87·9	87·5	87·2	87·0	86·5	86·7	86·6	86·6
19												
20	88·9	88·9	88·3	88·2	88 4	88·0	87·5	87·5	87·0	87·2	87·0	86·8
21	87·2	86·8	85·3	86·5	87·0	87·0	87·0	86·7	85·5	86·1	86·1	86·5
22	86·2	86·0	85·7	85·9	86·0	86·5	86·5	86·0	86·0	85·8	85·1	84·7
23	82·6	82·5	83·0	84·0	84·0	84·0	84·4	84·0	83·9	82·0	82·5	81·8
24	81 2	81·5	81·5	82·9	83·5	83·5	83·5	83·5	83·5	83 7	83·2	83·6
25	84·7	84·7	84.2	85·0	86·5	85·5	80·0	85·5	85·6	85·6	85·6	85·6
26												
27	83·7	83·7	83·6	84·4	85·0	84·5	84·5	84·5	84·5	84·7	84·6	84·6
28	81·2	81·5	81·5	82·0	82·7	83·0	83·5	83·8	84·0	84·2	84·2	83·8
29	82·4	81·3	81·0	81·5	81·9	82·0	82·5	82·5	82·5	82·8	83·1	83·2
30	80·9	80·4	80·4	82·0	83·0	83·5	83·5	84·0	84·0	83·9	84·2	83·6

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
		t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
JUNE, 1847.	1	-1·28·70	1·17·10	0·01·00	0·16·30	-1·00·00	-2·24·05	-3·14·50	-3·40·10	-3·40·10	-2·33·25	-1·41·25	-1·26·10
	2	-1·30·00	1·30·00	1·21·20	-0·33·60	-1·17·30	-2·08·35	-2·42·35	-3·13·60	-3·21·30	-2·23·50	-2·14·10	-1·42·55
	3	-1·00·30	0·40·00	0·12·60	0·02·00	-0·36·80	-1·39·60	-3·00·20	-3·23·85	-3·17·10	-2·09·05	-1·20·10	-0·46·00
	4	-0·36·95	0·36·95	0·07·70	0·02·80	0·02·80	-0·48·25	-1·19·80	-1·49·95	-1·32·80	-1·07·30	-0·20·85	-0·34·50
	5												
	6	0·18·40	0·32·80	0·42·70	0·34·90	0·17·00	-0·07·60	-0·28·90	-1·04·35	-0·43·25	-0·35·45	-0·32·40	-0·03·40
	7	2·08·10	2·08·10	1·35·50	1·45·90	1·20·00	0·06·35	-0·23·20	-0·06·95	-0·12·50	1·37·40	1·41·60	2·13·40
	8	1·25·40	2·12·00	1·42·00	2·03·20	1·31·00	0·35·10	0·00·70	-0·42·35	-1·19·50	-1·17·60	-0·37·50	-0·21·75
	9	1·43·50	2·13·60	1·45·90	1·10·40	0·18·90	-0·30·00	-1·00·65	-0·34·55	-0·43·90	-0·12·35	0·05·10	0·08·85
	10	1·42·00	2·16·10	2·16·10	2·02·80	1·14·50	0·22·75	-0·04·15	-0·15·55	-0·37·35	0·06·80	0·28·75	0·41·40
	11	2·34·95	3·25·30	3·49·10	3·26·40	2·14·40	1·28·40	0·49·25	0·31·85	-0·01·00	0·24·65	1·18·65	1·22·40
	12												
	13	1·36·50	2·25·10	2·18·00	2·04·00	0·37·00	0·06·25	-0·08·00	-0·21·65	-0·20·05	0·03·85	0·19·40	0·34·45
	14	2·12·95	2·05·60	3·05·70	2·25·70	1·26·10	0·13·00	-0·38·75	-1·10·50	-1·14·05	-1·03·30	-0·38·20	-0·06·70
	15	2·28·65	2·37·20	3·45·20	3·27·20	2·29·20	1·15·10	0·16·60	0·06·70	0·34·90	1·26·90	2·14·10	2·33·80
	16	2·22·70	2·38·90	3·47·10	3·35·90	2·38·90	1·24·90	0·34·60	0·34·60	1·16·80	4·04·15	4·04·15	3·47·50
	17	-0·07·30	-0·07·30	0·25·20	0·37·30	-0·09·50	-0·46·25	-1·19·00	1·39·60	-1·44·45	-1·00·90	0·14·50	0·06·00
	18	2·05·60	2·16·20	1·16·60	1·32·90	0·46·80	-0·07·01	-1·20·85	2·02·50	-1·31·10	-1·08·60	-0·37·75	-0·18·30
	19												
	20	0·41·85	0·29·80	0·34·30	0·35·60	0·00·20	-0·43·60	-1·46·50	-2·16·35	-2·40·60	-3·07·95	-2·18·40	-1·03·55
	21	0·06·25	0·20·60	-0·03·20	-0·03·20	-0·47·50	-1·31·60	-1·45·75	2·23·25	-2·07·70	-0·34·55	-0·24·40	-0·17·95
	22	-0·34·00	-0·20·90	0·09·90	0·41·80	-0·07·90	-1·04·75	-1·11·75	-1·29·80	-1·11·24	0·37·00	-0·00·95	-0·30·35
	23	0·14·80	1·18·10	0·34·40	0·39·90	-0·05·20	-0·19·50	-1·09·50	-0·29·55	-0·18·50	-0·05·65	-0·05·65	-0·17·50
	24	0·31·65	0·31·65	0·38·20	0·07·50	-0·26·70	-0·34·00	-0·36·50	-1·28·40	-1·31·40	-0·25·70	-0·20·75	-0·08·45
	25	-0·07·50	0·11·10	0·14·70	-0·11·30	-0·29·50	-1·06·25	-0·47·50	-1·24·30	-0·49·00	-0·15·80	1·04·55	-0·36·95
	26												
	27	-0·17·60	-0·21·00	-0·21·10	-0·03·90	-1·08·20	-2·09·00	-2·13·70	-2·00·65	-1·43·75	-1·31·20	-1·16·95	-0·28·35
	28	0·07·75	0·35·00	1·26·10	1·17·60	0·35·50	0·09·55	-0·07·10	-1·22·40	-1·03·00	-0·12·20	0·09·25	1·01·10
	29	1·25·03	1·33·90	2·08·00	2·08·00	1·36·50	0·27·40	0·06·50	0·12·60	0·31·90	0·48·30	1·11·20	1·31·15
	30	0·29·55	0·42·30	1·16·40	1·01·50	0·42·50	1·06·00	-0·34·00	-0·42·40	-0·21·00	-0·05·90	0·18·65	0·47·05

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.		12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
JUNE, 1847.	1	86°2	86°0	84°7	83°4	82°9	82°6	82°6	82°5	82°5	82°9	82°7	82°7
	2	84·7	85·4	83·8	83·0	82·8	82·5	82·3	82·2	82·5	83·0	83·2	83·2
	3	85·2	85·5	84·0	83·7	84·0	84·6	85·5	85·5	85·7	86·2	86·3	86·3
	4	85·8	86·0	84·7	84·3	84·4	84·5	85·0	85·5	85·5	86·2	86·7	86·9
	5												
	6	86·9	87·0	85·5	84·8	84·9	85·0	85·0	86·2	86·5	87·2	87·7	87·3
	7	85·7	85·5	83·8	82·5	82·9	83·0	84·0	83·6	83·0	83·0	82·5	81·8
	8	84·2	83·9	82·9	82·0	81·7	81·6	82·0	83·0	84·1	85·5	86·3	87·2
	9	84·6	84·3	83·2	83·5	84·0	84·5	85·0	84·2	84·5	84·7	84·1	84·3
	10	85·5	85·4	84·0	83·0	83·3	83·5	83·6	84·0	84·5	85·2	85·7	86·0
	11	85·7	84·9	84·8	82·9	82·0	81·0	80·7	81·0	81·5	80·7	80·0	80·2
	12												
	13	83·2	83·4	82·5	82·0	82·5	82·5	82·5	82·6	83·2	83·7	84·2	85·2
	14	85·1	85·3	84·0	83·8	84·2	84·5	85·0	85·8	86·3	86·8	87·2	87·6
	15	85·7	85·9	84·8	84·4	84·2	84·5	85·0	85·5	86·1	86·8	86·7	87·7
	16	86·2	86·4	85·0	84·5	84·5	83·7	83·0	83·0	82·5	81·6	81·7	81·8
	17	85·4	85·5	84·3	84·0	84·4	84·8	85·5	85·8	86·5	87·0	87·2	87·3
	18	86·8	87·0	86·5	85·0	84·9	85·2	85·7	86·5	87·3	87·5	87·9	88·0
	19												
	20	86·7	86·5	85·5	85·2	85·5	85·9	86·5	87·4	87·8	88·0	88·2	88·0
	21	86·3	86·6	85·3	84·8	85·0	85·0	85·5	85·5	85·7	85·8	86·1	86·2
	22	84·6	84·9	83·0	81·5	81·8	82·0	82·0	82·6	82·6	83·0	83·7	82·6
	23	81·8	81·5	80·4	80·0	80·6	81·0	81·0	81·0	81·0	81·0	80·8	81·0
	24	83·7	83·8	82·0	81·9	81·8	81·5	81·5	82·5	82·5	83·3	84·1	84·4
	25	85·2	85·0	83·8	83·5	83·3	83·6	83·5	84·2	83·0	84·2	84·0	84·2
	26												
	27	84·6	84·5	82·9	82·5	82·5	83·0	82·6	82·0	81·5	81·6	81·3	81·2
	28	83·9	84·4	83·0	82·5	82·5	82·5	83·0	83·7	83·5	83·7	83·7	83·0
	29	82·8	82·9	81·3	80·7	80·2	79·8	80·2	79·5	79·7	80·0	80·0	80·3
	30	83·2	83·0	81·9	81·4	81·1	81·5	82·2	82·7	82·6	83·2	83·7	84·2

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
JULY, 1847. 1	1·30·30	1·36·10	1·19·40	1·42·70	0·42·70	0·42·70	1·36·10	1·01·75	1·21·75	1·21·75	1·29·80	1·11·40
2	1·41·30	1·34·40	1·00·20	1·40·90	1·40·90	1·40·90	1·47·55	2·39·55	1·18·90	1·09·20	1·18·80	1·14·90
3												
4	-0·04·20	0·14·70	0·00·50	-0·18·70	-0·30·00	-0·45·70	-0·19·40	-0·01·75	-0·02·60	0·13·10	0·36·50	0·36·50
5	0·17·75	0·18·20	0·09·50	-0·00·00	0·06·50	0·14·55	0·28·70	0·05·00	0·13·60	0·13·50	0·24·00	0·27·85
6	0·25·75	-0·12·30	-0·43·40	-1·07·30	-0·30·00	-0·30·00	-0·34·05	-0·02·50	-0·16·40	-0·04·25	-0·04·25	0·18·45
7	-0·04·75	-0·05·55	-0·34·00	-0·43·50	-0·20·10	-0·10·90	-0·10·90	-0 01·15	-0·15·25	-0·00·90	-0·00·90	0·03·00
8	-0·44·20	-0·23·50	-0·23·50	-0·23·50	-0·43·20	-1·24·35	-1·24·35	-1·17·85	-1·17·85	-0·19·70	-0·16·75	-0·16·75
9	-0·02·30	-0·05·40	-0·16·10	0·21·80	-0·07·50	-0·19·60	-0·19·60	-0·12·10	-0·06·80	0·02·00	0·29·30	0·16·50
10												
11	0·08·00	-0·14·10	-0·25·20	-0·15·80	-0·15·80	0·02·45	0·02·45	0·02·45	0·02·45	0·02·45	0·15·00	0·08·60
12	-0·14·55	-0·40·30	-1·26·80	-0·35·30	-0·28·10	-0·19·50	-0·23·45	-0·23·45	-0·23·45	-0·14·00	-0·05·70	-0·09·00
13	-0·17·50	-0·26·70	-0·47·30	-0·47·30	-0·37·40	-0·37·40	-0·37·40	-0·20·35	-0·17·60	-0·15·25	-0·05·35	0·27·90
14	-1·20·40	-1·14·10	-1·14·10	-1·21·70	-1·21·70	-1·13·25	-1·13·25	-1·07·70	-1·07·70	-1·05·00	-0·38·00	-0·42·90
15	-0·14·00	-0·14·00	-0·32·00	-0·37·50	-0·26·70	-0·12·45	-0·06·15	-0·13·50	-0·13·50	-0·18·00	-0·08·85	-0·20·70
16	-0·19·80	-0·15·20	-0·40·70	-1·05·40	-0·42·30	-0·28·00	-0·20·35	-0·20·35	-0·13·95	-0·06·15	-0·12·95	-0·06·30
17												
18	-0·30·90	-0·40·70	-1·00·10	-1·04·50	-0·38·30	-0·38·30	-0·32·50	-0·13·35	-0·03·45	-0·08·35	0·05·50	0·05·50
19	-0·19·00	-0·35·90	-0·34·10	-0·36·50	-0·48·00	-0·41·00	-0·29·75	-0·23·75	-0·16·50	-0·16·50	-0·16·50	-0·30·65
20	-0·07·20	-0·28·70	-0·40·80	-0·40·80	-1·40·80	-0·44·00	0·00·70	0·00·70	0·15·40	0·23·05	0·18·50	0·22·25
21	-0·19·00	-0·27·90	-0·20·80	-0·20·80	-0·16·00	-0·16·00	-0·04·35	-0·04·35	-0·00·45	-0·00·45	0·04·85	0·10·05
22	-0·43·20	-1·07·20	-0·27·90	0·04·70	-0·02·10	-0·12·25	-0·00·25	-0·00·25	-0·00·25	0·06·85	0·06·85	0·06·85
23	-0·38·30	-0·37·50	-0·31·90	-0·21·30	-0·26·80	-0·31·90	-0·31·90	-0·31·90	-0·17·00	-0·17·00	-0·09·05	-0·03·95
24												
25	-0·30·20	-0·30·20	-0·30·20	-0·36·50	-0 36·50	-0·36·50	-0·36·50	-0·36·50	-0·36·50	-0·28·75	-0·02·50	-0·08·45
26	-0·30·15	-0·21·90	-0·21·90	-0·38·50	-0·31·30	-0·45·70	-0·36·90	-0·36·90	-0·36·90	-0·42·25	-0·36·75	-0·30·15
27	-0·34·50	-1·07·80	-1·07·80	-0·49·70	-1·05·10	-1·05·10	-1·05·10	-1·00·80	-1·00·80	-0·40·55	-0·38·60	-0·43·50
28	0·12·50	-0·00·50	-0·17·20	-0·39·30	-0·39·30	-1·04·00	-1·10·90	-1·17·00	-1·17·00	-1·17·00	-1·17·00	-1·01·50
29	-0·22·35	-0·17·80	-0·17·80	-0·27·50	-0·27·50	-0·27·50	-0·27·50	-0·20·35	-0·14·20	-0·28·55	-0·38·40	-0·08 60
30	0·41·50	0·09·80	-0·24·00	-0·18·90	-0·17·80	0·25·50	0·14·00	0·41·80	0·25·25	0·14·50	0·18·90	0·27·30
31												

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
JULY 1847. 1	84°0	83°4	82°6	83°5	83°7	83°6	82°7	83°0	82°9	83°0	82°7	83°0
2	80·7	80·9	81·0	82·0	82·4	82·5	82·5	81·5	82·0	82·5	82·0	81·9
3												
4	83·5	83·7	83·2	83·3	84·0	84·3	84·5	84·4	84·5	84·5	84·5	83·8
5	85·2	84·7	84·4	84·9	85·0	84·7	84·6	84·6	84·5	84·5	84·6	84·7
6	85·2	84·9	84·0	84·5	84·5	84·6	84·4	83·5	84·0	84·0	84·0	83·7
7	83·2	83·6	83·3	84·3	84·5	84·5	84·6	84·6	84·3	84·2	84·2	84·2
8	81·6	81·1	81·1	82·4	83·3	83·5	84·0	84·0	84·0	84·2	84·0	83·7
9	82·9	83·0	83·3	83·9	84·5	84·6	84·7	84·5	84·5	84·6	84·6	84·6
10												
11	85·9	85·4	84·9	85·0	85·0	85·0	85·0	85·0	84·6	84·6	84·6	84·6
12	85·2	85·0	84·0	84·5	85·0	85·0	85·0	84·8	84·7	84·6	84·6	84·6
13	82·6	82·8	82·8	83·7	84·5	84·6	84·6	84·6	84·9	85·2	85·2	85·2
14	85·4	85·0	85·0	85·4	85·5	85·5	85·5	85·3	85·0	85·0	84·7	84·6
15	85·5	85·0	84·8	85·0	85·5	85·0	85·0	84·7	84·6	84·6	84·5	84·5
16	84·7	84·5	84·3	84·9	85·0	84·5	84·7	84·9	84·5	84 4	84·3	84·2
17												
18	85·3	86·0	85·0	84·9	85·0	84·7	84·6	84·6	84·5	84·5	84·3	84·0
19	82·7	82·9	82·9	84·0	84·4	84·5	84·5	84·2	84·0	84·2	84·2	84·5
20	86·8	85·9	85·5	85·0	85·9	86·2	86·0	85·5	85·1	85·1	84·7	84·6
21	86·0	85·5	85·0	85·4	85·5	85·5	85·4	85·0	85·0	85·0	85·0	85·2
22	86·1	86·2	85·3	85·4	85·3	85·0	84·6	84·7	85·5	85·7	85·7	85·7
23	87·1	87·1	86·4	86·7	87·0	87·0	86·6	86·5	86·4	86·3	86·2	85·7
24												
25	85·5	85·2	84·8	85·0	86·0	85·3	85·5	85·5	85·7	85·2	84·0	83·4
26	83·2	82·7	82·4	83·4	83·4	84·0	83·7	84·0	84·0	84·4	83·7	83·7
27	83·7	84·0	83·5	83·4	83·9	84·0	83·9	84·0	84·0	84·0	83·3	84·0
28	83·2	83·0	82·7	83·9	84·3	84·4	84·3	84·0	84·0	83·7	83·7	83·6
29	81·4	81·1	80·8	81·3	81·5	81,8	82·2	82·0	82·5	83·0	83·4	83·3
30	83·5	84·5	83·8	84·8	84·9	84·5	84·8	84,6	84·5	84·5	84·0	83·8
31												

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

JULY, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	1·40·65	2·16·50	2·37·80	2·37·80	1·07·20	0·16·15	0·15·70	−0·38·80	−0·04·30	0·19·40	0·42·50	1·17·00
2	1·44·50	2·25·60	1·27·00	1·05·60	0·18·00	−2·06·90	−2·09·60	−2·26·00	−1·40·70	0·05·20	−0·28·85	−0·06·85
3												
4	0·44·60	1·05·60	1·24·20	1·05·70	0·03·70	−0·46·30	−1·16·75	−1·48·00	−2·10·85	−1·36·00	−0·34·75	0·02·60
5	0·20·70	0·20·70	0·20·70	0·27·00	−0·06·00	−1·20·50	−2·17·40	−3·18·00	−2·43·50	−2·36·90	−0·48·40	0·25·75
6	0·31·95	0·45·70	0·49·70	0·23·30	−1·05·90	−2·02·65	−1·44·50	−1·34·75	−0·31·40	−0·28·40	0·00·00	0·20·80
7	0·06·85	0·47·70	0·47·70	0·23·10	−0·42·00	−1·48·10	−2·37·85	−2·37·85	−1·26·30	−1·41·80	−1·18·75	−0·40·10
8	0·01·50	0·22·60	0·31·70	0·05·80	−1·08·50	−1·08·50	−0·44·55	−0·26·20	−1·06·15	−1·45·60	−1·13·15	−0·49·00
9	0·13·30	0·19·50	0·37·20	0·22·20	0·08·80	−0·12·25	−2·24·40	−3·49·80	−2·10·15	−1·33·25	−1·46·55	−1·18·00
10												
11	−0·00·90	−0·00·90	0·13·80	−0·13·30	−1·18·10	−1·36·20	−1·33·75	−1·49·50	−1·49·60	−2·15·50	−1·47·00	−0·44·35
12	−0·09·00	−0·02·00	−0·02·00	−0·19·40	−1·05·50	−1·22·55	−1·44·20	−2·38·00	−3·03·00	−2·08·00	−1·22·60	−0·26·40
13	0·21·90	0·26·70	1·09·10	0·38·90	0·16·90	−0·20·70	−1·03·45	−1·28·65	−1·31·70	−2·25·90	−2·06·35	−1·31·90
14	−0·14·30	0·11·60	0·33·00	0·11·50	−0·08·10	−0·32·00	−1·03·40	−1·03·40	−0·42·50	−1·34·20	−0·29·70	−0·24·95
15	−0·11·65	−0·08·10	−0·03·30	−0·03·30	−0·22·10	−1·05·50	−1·09·70	−1·34·30	−1·40·80	−2·00·90	−1·35·10	−1·03·35
16	−0·18·55	−0·07·00	0·08·80	−0·03·20	−0·19·00	−0·49·60	−1·21·60	−1·49·90	−1·49·90	−2·10·80	−1·34·85	−1·20·90
17												
18	0·05·50	0·09·60	0·09·60	−0·02·90	−0·39·20	−0·48·00	−1·11·65	−1·41·10	−1·47·85	−1·29·40	−0·48·20	−0·20·90
19	−0·09·15	0·15·00	0·43·90	0·26·70	−0·14·00	−1·24·25	−2·10·25	−2·39·35	−2·14·00	−0·37·75	−0·02·85	−0·02·35
20	0·15·85	0·30·70	1·01·50	0·45·50	0·12·50	−0·18·50	−0·27·30	−1·02·40	−1·07·35	−1·12·90	−1·09·50	−0·27·40
21	0·05·55	0·09·40	0·23·50	0·11·10	−0·12·60	−0·41·60	−1·10·80	−1·30·10	−1·14·75	−0·37·90	−0·22·75	−0·19·40
22	0·06·85	0·37·60	0·42·20	0·37·80	0·08·60	−0·24·50	−0·22·50	−0·38·80	−0·47·25	−0·26·15	−0·15·90	−0·21·95
23	0·13·60	0·13·60	0·33·40	0·24·35	0·00·90	−0·10·35	−0·10·35	−0·10·35	0·00·90	0·18·85	0·12·00	−0·11·90
24												
25	−0·08·45	−0·08·45	0·04·50	0·10·10	0·03·20	−0·08·80	−0·22·55	−0·46·95	−1·03·50	−0·48·60	−0·43·10	−0·40·00
26	−0·07·55	−0·07·55	0·10·00	0·10·00	−0·05·80	−0·23·00	−0·41·55	−1·12·75	−1·14·60	−1·00·65	−0·29·00	−0·15·35
27	−0·30·20	−0·14·00	0·07·00	−0·06·00	−0·24·10	−0·37·55	−1·08·25	−1·29·75	−1·10·20	−1·20·15	−0·48·70	−0·11·90
28	−0·44·90	−0·30·90	0·05·70	0·01·20	−0·20·80	−0·34·60	−0·39·20	−0·43·20	−0·43·20	−0·37·50	−0·37·50	−0·27·10
29	0·40·10	0·48·70	1·42·00	2·24·80	0·24·80	0·44·25	0·30·50	0·22·50	0·27·75	0·31·65	−0·13·00	0·13·00
30	0·24·10	0·18·00	0·45·00	0·45·00	0·17·90	0·13·40	−0·09·80	−0·09·80	0·09·30	0·22·30	0·30·05	0·04·60
31												

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

JULY, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	83°1	83°3	81°8	80°6	80°5	79°0	80°3	80°6	80°5	80°6	80°8	80°6
2	81·7	81·8	80·4	79·7	79·8	80·3	81·3	81·0	81·0	81·4	81·4	81·5
3												
4	83·6	84·3	82·9	82·5	82·2	83·5	83·1	83·8	84·0	84·6	85·2	85·2
5	84·2	84·4	83·2	82·7	82·5	82·5	82·8	83·5	83·5	84·6	85·2	84·7
6	84·0	84·0	82·9	82·5	82·7	82·7	82·5	82·7	82·5	83·0	82·3	82·5
7	84·2	84·0	82·9	82·7	82·6	83·0	83·0	83·5	83·3	83·6	83·3	82·5
8	83·7	83·8	82·8	82·5	82·5	82·6	83·0	83·0	83·5	84·2	84·6	83·7
9	84·6	84·5	83·0	82·8	82·6	82·2	83·3	83·3	83·8	84·0	83·6	84·0
10												
11	84·4	84·5	83·4	83·0	83·5	84·2	84·6	85·0	85·5	86·2	86·6	86·2
12	84·7	84·8	83·7	83·3	83·4	83·8	84·5	84·7	85·5	85·3	84·0	83·2
13	84·8	85·1	83·7	83·0	83·0	83·5	84·2	84·7	85·0	85·6	85·5	85·4
14	84·6	84·3	83·4	82·9	82·9	83·5	84·0	84·5	84·7	85·3	85·5	85·6
15	84·6	84·8	83·4	82·9	83·3	83·5	82·7	83·0	83·5	83·6	83·6	84·7
16	84·2	84·5	83·3	82·5	82·5	83·0	83·5	84·0	84·0	84·4	84·0	84·0
17												
18	83·8	84·4	83·0	82·5	82·9	82·7	83·2	84·0	84·5	84·5	83·7	83·2
19	84·5	84·5	83·0	82·7	82·8	83·0	83·5	84·5	84·7	84·7	85·7	86·2
20	84·6	84·8	83·5	83·3	83·4	84·0	84·5	85·0	85·4	85·6	86·0	86·0
21	85·2	85·0	84·0	83·5	83·6	84·0	84·0	85·0	85·5	86·1	86·5	86·1
22	85·7	86·0	84·0	83·7	83·9	84·2	84·6	85·0	85·5	86·0	86·5	87·0
23	85·7	85·5	84·3	83·9	83·9	83·7	83·5	83·3	82·7	82·7	82·7	83·1
24												
25	83·7	83·9	82·5	81·6	81·1	80·7	81·3	81·5	81·5	82·0	82·1	83·2
26	82·7	82·8	81·1	80·5	80·4	80·7	81·0	81·6	82·3	83·2	84·0	83·7
27	84·2	83·9	82·5	82·0	82·2	82·0	82·5	83·1	83·7	84·3	84·0	83·6
28	83·3	83·4	81·9	81·6	81·6	81·0	81·0	81·0	81·0	81·5	81·6	81·6
29	83·3	83·5	81·7	81·2	81·5	82·0	82·1	82·5	83·0	83·9	83·9	83·3
30	84·0	84·4	82·8	82·3	82·5	83·0	83·6	84·5	85·0	85·5	85·8	86·5
31												

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings.)*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
	t d	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*	*t d*
1	-0·08·50	-0·08·50	-0·08·50	-0·13·70	0·02·80	-0·10·65	-0·03·20	0·05·35	0·14·05	0·06·85	0·00·70	1·00·25
2	-0·05·85	0·38·80	0·37·50	0·20·00	0·11·20	0·11·20	0·17·50	0·26·30	0·39·10	0·34·60	0·31·10	0·31·10
3	-0·27·10	-0·29·00	-0·11·50	-0·17·00	-0·17·00	-0·20·20	-0·39·90	-0·23·30	-0·32·00	-0··2800	-1·07·15	0·46·50
4	-3·17·45	-3·36·70	-4·31·50	-4·35·50	-4·23·30	-3·38·25	-3·38·25	-3·38·25	-3·38·25	-3·24·05	-3·32·00	-4·21·50
5	-4·09·90	-3·39·00	-3·24·30	-4·17·30	-3·49·20	-3·49·20	-3·49·20	-3·09·65	-3·09·65	-3·00·65	-3·03·60	-2·33·70
6	-3·08·80	-3·11·90	-3·34·60	-4·19·40	-3·43·50	-3·16·95	-3·02·05	-2·14·10	-2·14·10	-2·28·00	-2·32·80	-2·40·10
7												
8	-1·31·70	-2·02·50	-2·40·40	-3·08·90	-3·08·50	-3·03·30	-2·24·50	-2·05·00	-2·01·30	-1·49·40	-2·31·30	-3·09·45
9	-1·40·30	-2·01·70	-2·24·80	-2·35·80	-2·27·50	-2·16·70	-2·16·70	-1·30·35	-1·34·55	-2·22·20	-2·41·00	-2·18·20
10	-3·07·00	-2·29·80	-2·29·80	-3·00·10	-2·33·55	-1·44·80	-1·44·80	-1·44·80	-2·04·65	-2·00·65	-2·07·50	-2·13·25
11	-3·05·70	-3·09·40	-3·08·50	-3·10·50	-2·40·70	-2·34·40	-2·18·50	-2·18·50	-1·48·80	-1·48·80	-2·22·90	-2·30·20
12	-3·14·50	-3·43·70	-3·49·30	-4·07·80	-4·01·40	-3·37·70	-3·37·70	-3·37·70	-3·37·70	-3·26·45	-3·07·20	-3·10·50
13	-0·04·90	-0·35·50	-1·12·00	1·23·10	-1·23·10	-1·23·10	-1·39·00	-1·28·95	-1·13·40	-1·20·75	-1·20·75	-0·26·00
14	-0·17·75	-0·17·75	-0·35·40	-0·35·40	-0·42·20	-32·80	-1·17·60	-1·09·30	-1·09·30	-1·02·30	-0·49·75	-1·22·50
15												
16	-1·01·75	-1·13·40	-1·25·10	-1·18·00	-1·01·20	-0·42·05	-0·42·05	-0·31·70	-0·31·70	-0·31·70	-0·35·10	-0·45·30
17	-0·12·00	-0·42·00	-1·33·50	-1·30·30	-1·30·30	-1·08·25	-0·38·35	-1·22·60	-1·22·60	-0·42·35	-0·42·35	-1·07·15
18	-1·12·10	-1·04·80	-1·41·50	-1·06·10	-0·41·60	-0·19·45	-0·40·90	-0·35·55	-0·13·00	-0·04·35	0·15·45	0·34·50
19	-0·43·90	-0·31·60	-0·41·30	-1·02·90	-1·02·90	-0·45·75	-0·38·55	-0·38·55	-0·38·55	-0·34·20	-0·30·00	-0·30·00
20	-0·04·90	-0·23·80	-1·05·60	-1·39·00	-1·39·00	-1·26·95	-1·26·95	-1·18·75	-1·29·45	-1·25·45	-0·25·50	-0·04·05
21												
22	0·13·35	-1·02·60	-1·08·40	-0·31·30	-0·16·80	-0·44·75	-0·44·75	-1·10·50	-0·45·40	-0·30·00	0·12·25	0·12·25
23	0·35·40	0·25·50	0·21·30	0·10·60	0·10·60	0·10·60	0·10·60	0·10·60	0·10·60	0·14·00	0·36·60	1·01·90
24	1·02·20	1·02·20	0·35·90	0·31·40	0·26·20	0·26·20	0·26·20	0·11·50	0·17·75	0·20·10	0·38·45	0·36·55
25	1·25·80	1·07·70	0·38·20	0·27·80	0·27·80	0·20·25	0·20·25	0·20·25	0·30·70	0·38·40	0·38·40	0·34·05
26	1·01·60	0·39·70	1·09·60	1·09·60	1·21·40	1·34·10	1·34·10	1·07·50	0·26·20	1·06·30	1·34·30	1·17·00
27	1·32·90	1·17·20	1·10·50	1·04·25	1·08·80	1·02·70	1·22·15	1·10·20	0·45·90	1·07·10	1·35·70	1·32·55
28												
29	1·42·80	1·35·00	1·41·90	1·41·90	1·41·90	1·41·90	2·06·50	2·06·50	2·06·50	2·09·90	2·21·75	2·37·30
30	1·29·63	1·40·20	2·04·60	2·00·10	2·15·70	2·15·70	2·15·70	2·15·70	2·23·50	2·23·50	2·27·25	2·31·80
31	1·38·65	1·42·50	1·42·50	1·42·50	1·42·50	1·42·50	2·02·10	2·19·10	2·19·10	2·12·85	2·15·40	2·11·60

AUGUST, 1847.

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	86°2	86°2	85°3	85°3	85°5	85°7	86°0	86°0	85°7	85°6	85°5	85°5
2	85·3	83·5	83·0	84·3	84·8	84·6	84·6	85·0	84·5	84·6	84·5	84·3
3	82·7	82·8	82·5	83·4	84·3	83·5	83·5	83·5	83·5	83·7	83·3	82·8
4	82·5	82·8	82·7	83·8	83·8	83·5	83·0	83·3	83·5	83·8	84·0	83·8
5	82·6	82·4	82·0	83·5	83·8	84·1	84·3	84·0	84·0	84·2	84·3	83·6
6	82·2	81·8	81·8	83·0	83·7	83·5	83·5	83·5	84·0	84·2	83·8	84·2
7												
8	82·8	82·7	81·7	82·4	83·3	83·5	83·5	84·4	82·7	82·7	83·3	83·5
9	84·6	84·4	83·4	83·9	84·4	84·4	84·0	83·5	83·6	83·7	83·9	83·7
10	84·6	84·7	83·9	83·5	84·0	84·0	84·4	84·0	83·5	83·9	84·1	84·2
11	83·8	82·5	82·8	83·9	84·4	84·5	84·6	84·8	85·0	84·7	84·2	84·0
12	82·8	82·4	82·0	83·3	83·4	83·0	83·2	83·0	83·0	83·1	83·1	82·9
13	81·3	81·5	81·5	82·3	83·4	84·0	84·5	84·0	83·7	83·9	83·9	83·6
14	84·2	83·4	81·8	82·5	82·9	82·5	82·7	83·5	83·8	83·7	83·7	83·6
15												
16	84·7	84·5	84·0	84·5	84·8	84·5	84·2	84·0	84·0	84·0	84·0	83·7
17	85·2	84·5	84·0	84·5	84·7	84·6	84·9	85·0	85·0	84·6	84·5	84·3
18	84·8	84·4	83·8	84·5	84·9	84·5	84·6	84·5	81·5	84·2	83·8	83·3
19	83·8	83·3	82·9	84·2	84·7	84·5	84·6	84·5	84·3	84·2	84·2	84·2
20	85·2	84·4	83·8	84·8	84·9	84·6	84·8	85·0	85·0	85·0	84·6	83·7
21												
22	84·0	84·0	83·5	84·8	85·0	85·0	84·5	84·5	84·8	84·6	84·2	84·0
23	84·6	83·9	83·5	84·7	84·5	84·5	84·5	84·6	85·0	84·2	84·2	83·8
24	83·6	83·3	83·0	83·9	84·2	84·0	84·0	84·0	84·0	84·3	83·8	84·5
25	84·7	84·8	83·9	85·0	85·3	85·0	85·1	85·0	84·8	84·3	84·5	84·5
26	85·2	85·0	83·5	84·5	84·7	84·5	84·0	84·8	85·5	84·6	84·7	84·3
27	83·7	83·3	82·5	83·5	83·5	83·6	85·5	84·0	83·5	83·3	83·2	83·5
28												
29	84·7	84·3	83·5	84·5	85·4	85·5	84·5	84·5	84·5	84·5	84·3	84·5
30	85·2	84·5	83·2	84·4	84·8	84·5	84·5	84·0	84·0	83·8	83·5	83·7
31	85·5	85·0	84·4	85·0	85·3	85·0	85·0	85·0	85·0	85·2	84·6	84·5

AUGUST, 1847.

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	1·21·00	1·14·90	0·47·40	1·27·80	1·19·50	1·19·20	0·34·90	−0·43·90	0·16·25	0·36·90	−0·20·85	−1·14·00
2	0·10·65	−0·11·40	0·37·30	0·12·85	−0·24·00	−1·16·85	−1·20·60	−1·46·35	−1·46·35	−1·16·80	−1·25·10	−1·02·25
3	0·46·50	1·06·90	1·24·50	1·24·50	0·18·20	−1·14·25	−1·48·30	−1·16·35	−0·38·90	−4·38·00	−4·17·85	−3·27·50
4	−4·24·00	−3·42·10	−3·06·40	−3·05·00	−3·33·20	−4·11·10	−4·08·25	−3·19·50	−2·09·55	−2·46·50	−4·08·30	−4·43·30
5	−2·26·10	−2·35·10	−2·20·60	−2·28·70	−3·30·70	−4·13·80	−4·10·60	−4·36·30	−4·36·85	−4·14·20	−4·31·90	−3·23·75
6	−2·15·85	−1·37·00	−1·37·00	−2·32·60	−4·00·70	−4·30·60	−5·36·10	−5·27·00	−4·32·50	−4·33·85	−3·39·60	−3·34·40
7												
8	−3·26·35	−2·42·90	−1·25·70	−1·36·30	−2·36·80	−4·11·30	−4·24·35	−4·30·00	−4·06·75	−3·06·95	−2·35·50	−2·06·10
9	−2·36·45	−2·12·10	−1·24·20	−1·43·90	−3·05·80	−4·30·50	−5·17·90	−5·28·00	−5·09·90	−5·22·30	−5·20·00	−4·36·50
10	−2·09·50	−2·05·10	−1·31·30	−2·11·20	−3·21·60	−4·42·85	−5·12·70	−4·24·95	−3·38·85	−3·17·80	−3·14·60	−3·02·65
11	−2·18·85	−2·09·20	−1·35·60	−2·04·40	−2·37·30	−3·17·40	−3·17·40	−3·40·60	−4·43·40	−5·05·05	−4·08·00	−3·14·50
12	−2·46·80	−2·35·40	−2·24·40	−2·44·60	−3·02·70	−3·45·85	−4·32·50	−4·22·95	−4·12·20	−1·07·45	−0·23·20	0·11·40
13	0·14·40	−0·23·90	−0·05·40	−0·12·40	−0·44·70	−1·15·05	−1·35·35	−1·47·95	−1·47·95	−2·00·10	−1·23·15	−1·03·25
14	−1·16·60	−1·03·90	0·07·40	−0·00·60	−1·10·00	−1·11·00	−1·11·00	−2·36·50	−2·46·95	−2·46·80	−1·44·15	−1·16·30
15												
16	−0·48·10	−0·25·20	0·26·00	0·26·00	−0·40·40	−1·40·10	−2·12·55	−3·12·30	−3·35·60	−3·49·50	−2·22·80	−1·17·90
17	−1·12·20	−0·41·80	0·11·10	0·06·40	−1·27·40	−2·45·40	−3·11·90	−4·04·05	−4·00·05	−3·10·70	−2·19·75	−1·32·70
18	0·11·50	0·11·50	1·12·90	0·28·80	−0·08·50	−1·09·90	−1·02·00	−2·02·45	−2·09·40	−2·04·80	−2·06·65	−1·19·10
19	−0·24·60	−0·12·00	0·13·30	0·13·30	−0·15·90	−1·13·60	−2·02·20	−2·15·50	−2·15·50	−1·45·60	−1·02·50	−0·18·30
20	−0·15·95	0·03·90	0·22·80	0·03·00	−0·49·20	−1·46·15	−2·17·85	−2·17·85	−2·02·15	−2·17·25	−1·06·25	−0·04·70
21												
22	−0·15·15	−0·01·50	1·01·80	1·06·80	−0·40·30	−1·30·50	−2·18·50	−2·30·40	−2·15·60	0·33·30	0·37·95	1·01·90
23	1·14·60	1·14·60	1·39·50	1·39·50	1·07·60	0·45·25	0·18·25	−0·01·95	−0·01·95	−0·01·95	0·09·15	0·22·45
24	0·48·05	1·09·00	1·42·30	1·32·20	0·45·00	0·14·95	−0·08·85	−0·08·85	−0·07·10	0·10·30	0·44·60	1·34·50
25	1·07·25	1·39·70	2·18·80	1·34·00	0·41·90	0·15·85	−0·15·85	0·09·50	0·09·50	0·08·95	0·32·00	0·45·90
26	1·22·00	1·30·70	2·13·00	2·13·00	1·24·50	0·36·65	−0·01·25	−0·19·20	−0·07·80	0·09·20	0·25·30	1·11·10
27	2·00·90	2·09·00	2·16·50	2·06·80	1·08·00	0·00·60	−0·09·00	−0·09·00	−0·20·00	−0·07·40	0·11·65	0·41·45
28												
29	2·31·00	2·31·00	3·20·50	3·31·20	2·45·30	1·42·60	1·12·10	0·33·95	0·20·40	−0·07·45	0·66·25	1·04·90
30	2·31·80	2·39·70	3·11·50	3·20·70	2·40·80	1·48·70	1·09·00	1·23·20	1·23·20	1·14·00	1·26·35	1·38·65
31	2·05·10	2·05·10	2·41·00	2·41·80	2·07·00	1·17·15	0·35·50	0·34·50	0·38·85	1·03·30	1·03·45	1·14·20

AUGUST, 1847.

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	84°5	84°6	83°1	82°8	82°5	81°7	82°5	83°9	84°5	84°9	85°3	85·3
2	84·2	84·3	82·8	82·0	82·0	82·5	83·0	83·5	84·0	84·5	84·2	83·2
3	82·7	82·9	81·7	81·4	81·5	82·3	83·2	83·5	84·0	83·3	82·5	82·3
4	83·8	84·8	82·0	82·0	82·0	82·0	82·8	83·0	83·5	83·2	82·8	82·7
5	83·6	83·4	82·5	82·0	82·0	82·0	82·6	82·6	83·0	82·5	82·5	82·4
6	83·8	83·8	82·2	81·5	81·5	81·5	81·5	82·1	82·2	82·6	82·7	82·6
7												
8	83·6	83·3	81·5	81·3	81·7	82·2	83·0	83·7	84·0	84·4	84·8	84·7
9	83·7	83·5	81·9	81·3	81·5	82·3	83·3	83·5	84·0	84·7	85·2	85·7
10	84·0	84·3	82·5	81·9	82·0	82·5	83·0	84·0	84·3	84·3	84·5	84·2
11	84·0	84·0	82·2	82·0	82·0	81·7	82·2	81·7	83·4	83·7	83·3	82·9
12	82·8	83·0	82·0	81·6	81·0	80·5	81·0	81·1	81·8	82·2	82·4	81·7
13	83·3	83·4	81·4	80·5	80·5	81·4	82·0	83·0	84·0	84·4	84·6	84·2
14	83·3	83·6	81·9	81·5	81·8	82·0	82·5	82·8	82·8	83·6	83·9	84·4
15												
16	83·7	83·7	82·5	82·0	82·0	82·6	83·2	84·5	84·8	85·5	85·5	86·0
17	84·0	84·0	82·3	81·6	82·0	82·6	83·0	84·0	84·0	84·0	84·6	84·7
18	83·3	83·5	82·2	81·9	81·8	82·6	81·7	82·6	83·9	84·6	84·8	83·9
19	84·0	84·2	82·0	81·5	81·6	82·5	83·1	83·9	84·5	84·2	84·7	85·2
20	83·7	83·8	82·0	82·0	82·3	83·0	83·1	84·0	84·5	85·2	85·7	85·6
21												
22	84·0	84·0	82·8	82·3	82·5	83·0	84·1	84·5	85·2	85·6	85·5	84·4
23	83·4	83·7	81·8	80·9	80·8	81·0	81·5	83·0	83·5	84·0	84·6	85·2
24	85·2	85°5	83·1	82·0	81·5	82·0	82·5	83·5	84·0	84·6	85·2	84·4
25	84·2	84·0	82·5	82·0	82·0	82·7	83·2	84·0	84·5	85·0	85·5	85·6
26	84·2	83·8	82·0	81·7	81·5	81·7	82·5	83·0	83·8	84·0	84·2	84·0
27	83·2	83·0	82·0	81·5	81·7	82·5	83·0	83·5	84·3	84·6	85·2	84·6
28												
29	84·5	84·0	82·4	81·8	82·0	82·5	82·2	82·6	83·6	84·0	84·6	84·3
30	83·5	83·5	81·5	80·9	81·0	81·5	82·0	83·0	83·5	84·5	85·2	85·2
31	84·6	84·5	82·7	82·1	82·4	82·7	83·0	83·6	84·8	85·0	85·3	86·0

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
SEPTEMBER, 1847.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	1·15·85	1·20·00	1·29·90	1·29·90	1·29·90	1·39·70	1·49·10	1·49·10	2·07·30	2·05·50	2·07·85	2·21·50
2	1·43·70	1·32·90	1·32·90	1·32·90	1·32·90	1·11·10	1·11·10	2·00·90	2·00·90	2·04·30	2·29·65	3·02·55
3	2·24·50	2·22·65	2·08·00	2·11·10	2·11·10	2·11·10	2·23·85	2·23·85	2·29·20	2·31·35	2·31·35	2·37·20
4												
5	2·31·00	2·33·20	2·24·90	2·07·40	2·07·40	2·24·25	3·01·70	3·01·70	2·46·60	3·02·05	2·40·60	2·26·60
6	2·34·00	2·34·00	2·21·40	2·12·20	2·12·20	2·12·20	2·21·00	2·21·00	2·35·85	2·40·30	2·33·00	2·43·90
7	1·27·10	1·05·30	1·22·60	2·03·00	2·14·60	2·23·30	2·36·90	3·00·70	3·00·70	3·16·50	3·05·90	2·37·35
8	2·27·80	1·30·20	1·07·30	1·00·60	0·35·60	0·35·60	0·35·60	1·29·90	1·48·15	2·11·30	2·34·30	3·25·30
9	3·47·20	2·46·20	2·07·60	2·27·00	2·42·30	2·42·30	2·42·30	2·42·30	2·42·30	2·34·85	2·30·60	3·05·60
10	2·34·60	1·49·40	1·18·00	1·33·90	1·48·00	1·48·00	1·48·00	1·48·00	2·01·80	2·01·80	2·23·85	2·18·20
11												
12	2·08·20	1·06·10	0·49·30	1·22·40	1·22·40	1·22·40	1·22·40	1·01·30	1·01·30	1·31·55	2·07·40	2·03·10
13	0·39·40	0·48·65	1·40·00	1·02·80	1·12·90	0·49·65	1·47·55	1·30·35	1·16·70	1·35·70	1·40·00	2·05·55
14	1·26·80	1·33·60	2·08·60	2·08·60	2·02·70	1·47·60	2·00·60	2·22·00	2·32·30	2·41·25	2·46·60	3·04·90
15	2·12·40	2·06·20	1·35·70	1·27·00	1·47·70	2·05·85	2·28·10	2·02·50	2·02·50	2·17·20	2·49·20	2·04·90
16	1·27·70	1·22·50	1·27·40	1·27·40	1·37·60	1·37·60	1·48·30	2·16·50	2·10·25	1·46·00	2·36·75	2·33·66
17	2·03·25	1·37·40	1·37·40	1·31·60	1·31·60	1·31·60	1·31·60	1·49·45	1·49·45	1·43·45	1·32·85	2·09·85
18												
19	1·44·60	1·21·40	1·31·40	2·00·00	1·36·10	1·36·10	1·23·60	1·28·00	1·28·00	2·19·65	2·25·38	2·36·00
20	1·47·60	1·32·95	2·06·00	2·12·28	1·46·90	1·46·90	2·33·85	3·11·25	1·47·05	2·12·80	2·25·80	3·00·30
21	1·38·00	1·13·70	1·41·70	1·41·70	2·06·60	2·06·60	1·38·00	2·06·90	2·27·95	2·32·15	2·32·15	2·32·15
22	5·32·80	4·42·30	4·13·90	5·11·40	5·27·00	4·21·10	4·36·10	4·22·30	4·16·65	3·41·85	3·14·45	3·17·75
23	5·07·75	3·40·50	4·22·60	4·22·60	4·07·30	4·07·30	4·57·30	4·07·30	4·21·65	4·23·35	4·07·75	5·06·83
24	4·23·90	4·17·00	3·36·50	4·08·40	3·12·70	7·22·50	5·05·00	5·23·00	5·23·60	6·39·30	5·22·10	5·47·05
25												
26	4·30·10	4·15·30	4·39·70	5·12·50	4·18·10	3·46·60	3·46·60	4·11·25	3·25·60	4·40·75	3·20·05	3·04·75
27	6·44·10	3·09·10	3·22·80	4·16·30	5·42·20	5·03·50	6·32·85	6·43·35	7·28·70	7·12·50	6·09·45	6·45·05
28	3·12·60	3·00·50	2·43·00	3·40·60	3·33·95	3·13·15	3·13·15	4·07·80	3·28·90	3·17·30	3·23·60	3·36·05
29	3·46·90	2·44·10	2·28·50	2·10·40	2·10·40	3·13·80	3·39·53	3·39·55	3·22·05	2·43·50	5·22·20	2·05·30
30	4·27·70	4·58·20	4·34·40	5·12·00	5·12·00	4·44·75	5·08·00	5·09·00	5·08·00	5·26·45	5·26·45	5·11·40

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6 h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
SEPTEMBER, 1847.												
1	85°9	86°1	84°5	85°5	85°5	85°0	85°0	85°5	85°3	85°3	85°3	85°2
2	84.4	83.3	83.0	84.8	85.5	85.7	86.0	86.0	85.3	84.5	84.5	84.6
3	83.7	83.5	83.3	84.4	84.5	84.0	84.5	84.0	83.5	83.5	83.6	83.7
4												
5	84.5	84.0	83.5	84.3	84.4	84.5	83.3	83.0	83.0	83.2	83.2	83.2
6	83.1	82.7	82.9	84.4	84.5	84.5	84.0	84.0	84.0	84.2	84.0	84.2
7	82.4	82.0	82.0	83.0	83.4	83.5	83.7	83.3	83.5	83.6	83.5	83.2
8	80.3	80.0	80.0	81.4	82.0	82.5	82.5	82.0	81.5	81.3	81.3	80.8
9	76.9	77.4	78.5	79.5	80.0	81.0	80.8	81.0	81.0	80.8	80.7	81.0
10	80.3	79.9	80.0	81.1	81.5	82.0	82.0	82.0	81.6	82.0	81.8	81.7
11												
12	84.3	84.4	83.0	84.5	85.0	85.0	85.0	84.4	84.2	84.2	83.7	83.6
13	85.3	84.7	84.4	85.0	185.4	85.4	85.3	85.0	85.0	84.3	84.2	84.5
14	85.5	84.0	82.7	83.6	84.4	84.5	84.5	84.0	83.2	83.2	83.2	83.2
15	83.6	83.1	83.6	84.8	85.0	85.0	85.4	85.5	85.5	85.7	85.5	84.6
16	85.5	84.9	83.9	85.0	85.2	85.0	84.5	84.5	84.6	85.2	84.7	84.7
17	85.5	84.9	84.3	85.0	85.4	85.0	85.0	85.0	84.6	84.2	84.7	84.5
18												
19	86.2	86.1	85.4	86.0	86.4	86.3	86.0	85.9	85.3	85.0	85.2	84.7
20	86.1	85.9	84.9	86.0	86.0	86.0	86.0	86.0	85.2	85.0	85.2	85.0
21	86.2	85.7	84.8	85.5	85.5	85.5	85.0	84.5	84.5	84.2	84.3	84.0
22	85.6	85.0	84.5	85.0	85.4	85.0	85.0	85.5	85.0	84.6	84.7	84.7
23	85.9	85.4	84.5	85.4	85.5	85.3	85.4	84.8	84.7	84.7	85.0	84.7
24	85.0	84.5	84.9	85.8	86.3	86.0	85.5	85.0	85.0	85.3	85.6	85.4
25												
26	85.5	84.5	84.0	85.0	85.8	85.6	84.5	84.5	84.5	84.3	84.5	84.5
27	86.0	85.7	85.4	85.5	85.5	85.5	85.6	85.0	84.7	84.9	84.7	84.7
28	86.2	85.5	85.2	86.0	86.5	86.5	87.0	85.8	85.8	86.0	85.7	85.6
29	84.9	84.9	84.8	85.5	86.0	85.5	85.5	85.5	86.0	86.0	85.1	84.7
30	83.2	83.1	83.0	83.4	83.5	83.5	83.0	82.6	83.0	83.2	83.0	83.2

VERTICAL FORCE MAGNETOMETER (in Micrometer readings).

SEPTEMBER, 1847.

Göttingen Mean Time	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	2·20·20	2·33·60	3·05·50	2·49·10	2·31·50	2·12·45	2·02·60	1·47·50	1·47·50	1·46·80	2·02·45	2·05·50
2	3·02·55	3·22·10	3·29·30	3·18·00	2·30·80	1·48·50	1·09·60	1·02·10	1·21·90	1·29·40	2·03·80	2·20·00
3	2·47·55	3·07·10	3·36·70	3·33·00	3·11·50	2·17·90	1·29·40	1·11·45	1·30·00	1·43·25	2·07·10	2·26·75
4												
5	3·37·65	2·43·60	3·31·00	3·24·00	3·05·10	2·08·40	1·33·00	1·17·50	1·30·40	2·09·85	2·25·10	2·34·00
6	3·11·90	3·26·20	4·03·20	3·45·80	3·06·10	2·15·50	1·40·35	1·40·35	2·10·50	2·21·60	2·26·60	2·32·25
7	2·18·10	3·11·50	3·11·50	2·30·40	1·40·80	0·47·25	0·16·00	0·30·50	0·49·50	1·35·95	2·08·80	2·41·50
8	4·18·00	3·45·40	4·26·70	4·04·70	2·07·50	1·49·60	1·49·60	1·49·60	2·05·20	3·01·75	3·33·30	4·25·10
9	3·13·25	3·13·25	4·05·50	3·10·70	1·29·80	0·27·00	−1·20·40	−1·07·80	−0·46·00	0·37·70	1·36·55	2·33·70
10	2·14·50	2·02·50	3·10·88	2·49·50	1·47·10	0·30·20	−0·41·55	−1·11·05	−0·26·70	1·07·25	1·45·85	2·36·25
11												
12	1·43·60	2·08·00	3·06·10	2·42·00	1·11·30	−1·09·75	−2·21·70	−2·24·10	−2·15·55	1·49·50	0·04·40	0·31·55
13	2·07·05	2·32·50	4·07·30	3·35·50	2·03·10	0·40·05	0·07·10	−0·26·80	−0·20·40	−0·03·75	0·38·20	1·11·00
14	3·15·10	2·42·50	3·33·70	2·24·40	2·21·30	1·36·90	0·39·00	−0·01·60	−0·25·75	0·19·75	1·29·50	2·07·60
15	1·43·25	1·43·25	3·03·50	3·20·50	1·38·50	0·27·90	−0·21·30	−1·02·00	−0·46·30	−0·41·85	0·22·50	1·20·00
16	2·22·75	2·06·60	3·35·10	3·48·10	3·01·70	2·00·00	1·12·85	0·21·50	0·07·50	0·31·05	1·49·00	2·13·00
17	3·04·45	2·20·70	3·10·10	3·25·80	2·16·30	0·37·70	−0·07·15	−0·39·80	−0·29·80	0·18·85	1·08·10	1·22·65
18												
19	2·36·00	3·24·30	4·18·20	4·25·40	3·35·30	1·33·55	0·15·80	−1·00·40	−0·28·05	0·15·55	1·08·90	1·47·10
20	3·08·20	1·47·50	3·17·60	4·21·10	3 22·80	1·27·20	0·20·75	−0·16·20	0·17·50	1·06·80	1·39·90	1·44·00
21	3·00·70	3·40·60	4·19·20	4·35·90	3·34·90	2·04·45	1·17·55	—	0·42·60	4·05·20	5·47·20	6·33·90
22	4·34·20	4·34·20	6·24·00	5·25·80	2·49·80	0·28·10	1·33·90	1·16·00	2·26·05	5·01·65	5·06·85	5·38·30
23	4·41·80	5·20·90	5·36·60	5·16·40	2·42·90	2·10·80	1·00·25	0·28·20	1·41·80	5·37·10	6·05·50	5·36·50
24	6·23·95	6·41·10	6·30·30	5·03·10	3·41·00	2·38·85	2·14·80	1·19·75	1·07·20	3·05·60	4·19·70	4·00·15
25												
26	1·29·70	4·07·50	6·47·50	6·48·10	4·05·60	1·16·35	1·05·25	2·26·00	1·39·60	2·34·10	5·41·20	5·01·50
27	6·08·00	7·05·40	7·27·90	5·31·50	6·33·80	2·03·40	−1·06·50	−1·42·75	−1·00·50	0·33·50	2·07·60	3·12·60
28	2·40·10	5·40·90	6·48·30	5·14·00	2·06·80	−1·25·15	−1·49·25	−2·12·60	−0·43·90	2·03·00	3·49·40	4·42·50
29	3·39·25	3·13·00	5·03·20	5·30·20	4·04·90	3·17·80	2·05·80	0·29·20	1·18·30	3·09·20	4·09·90	4·38·50
30	4·49·80	5·17·50	6·26·70	5·38·90	4·27·30	2·47·90	1·23·40	0·10·00	1·13·35	2·35·90	3·26·00	3·37·00

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

SEPTEMBER, 1847.

Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	85°2	85°3	83°2	82°5	82°5	82°5	82°5	82°5	82°5	83°2	83°5	83°4
2	84·8	84·0	82·4	82·0	82·0	82·3	82·7	83·5	84·0	84·6	84·6	84·5
3	83·7	83·5	81·0	80·9	80·4	81·9	81·8	82·0	82·5	82·7	83·0	81·9
4												
5	82·6	82·5	81·3	80·5	80·1	80·5	81·5	81·5	81·7	82·2	82·7	82·7
6	84·0	83·3	81·9	81·2	81·0	81·0	80·8	80·6	81·0	81·7	82·2	82·4
7	83·2	82·9	81·5	80·5	80·4	80·5	79·7	79·0	80·5	80·3	80·3	80·4
8	79·7	79·7	78·0	77·5	77·5	77·3	77·2	76·5	76·7	76·7	76·8	76·8
9	80·7	80·9	79·5	78·5	78·4	78·5	79·0	79·5	80·5	80·6	81·0	80·7
10	81·7	82·0	81·0	80·0	80·0	79·5	80·3	81·0	81·3	82·5	82·9	82·8
11												
12	83·7	84·0	82·4	81·3	81·8	82·5	83·5	84·0	84·5	84·3	84·6	85·2
13	84·3	84·3	83·5	82·4	82·5	82·5	83·0	83·5	84·4	84·7	85·5	85·4
14	83·2	83·4	82·5	81·7	81·8	82·5	83·5	83·5	83·3	84·4	84·4	84·2
15	84·6	84·6	83·0	82·0	82·0	82·0	83·0	83·5	84·0	84·5	85·2	85·5
16	84·7	84·8	83·0	82·0	82·0	82·5	83·0	84·0	84·5	84·6	84·9	84·9
17	84·2	84·0	83·0	82·0	82·2	83·0	83·5	84·5	84·6	85·2	85·6	86·2
18												
19	85·2	85·8	84·0	82·7	82·4	83·0	83·5	84·1	84·3	84·5	85·2	86·0
20	84·6	84·0	82·5	81·5	81·5	82·2	83·0	83·5	84·0	84·5	85·2	85·7
21	83·8	83·5	82·2	81·3	81·4	82·0	83·0	—	83·5	84·2	84·5	85·2
22	84·6	84·8	83·8	82·5	82·5	83·5	83·9	83·5	84·0	84·4	84·7	85·5
23	83·8	84·0	83·0	82·3	82·2	82·5	83·5	84·0	84·5	84·4	84·6	85·2
24	85·5	83·9	82·5	81·0	80·4	81·0	82·0	82·5	83·5	84·2	85·0	85·5
25												
26	84·6	84·7	83·0	81·5	81·6	82·0	82·3	83·6	84·0	84·2	85·2	85·5
27	84·5	84·4	82·7	83·0	82·5	82·5	83·5	84·0	84·5	85·5	85·7	86·2
28	86·0	85·5	84·0	82·5	82·0	82·5	82·7	83·5	84·2	84·4	84·2	84·2
29	83·7	83·8	83·0	81·8	82·0	82·5	83·0	83·5	84·0	84·2	84·5	83·6
30	83·2	83·0	82·3	81·5	81·5	82·0	82·5	83·5	84·0	84·5	85·3	86·2

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
OCTOBER, 1847. 1	3·32·15	2·43·80	2·43·00	3·32·30	3·39·60	2·39·80	2·30·00	2·30·00	3·32·75	3·19·30	3·15·30	4·30·30
2												
3	4·04·40	2·43·50	3·38·00	5·00·60	5·00·60	4·46·20	5·05·00	5·77·50	5·27·50	6·21·60	5·15·00	5·03·30
4	4·22·90	2·40·60	3·46·60	4·23·10	4·23·10	2·31·65	3·20·60	3·20·60	3·20·60	3·45·30	5·41·40	5·41·40
5	3·19·10	3·19·10	3·19·10	3·19·10	3·12·40	4·28·80	4·28·80	5·01·90	5·18·50	4·47·90	5·49·25	5·30·80
6	3·43·10	2·40·30	3·25·50	3·47·00	4·46·60	4·21·60	3·44·90	3·44·90	3·34·40	3·06·00	3·17·50	3·06·50
7	2·20·90	1·23·00	2·11·90	2·40·30	2·49·10	3·22·00	4·00·20	4·17·05	3·28·05	3·27·00	4·01·50	3·27·65
8	3·28·60	2·10·90	2·27·60	2·05·60	3·48·80	3·48·80	4·30·00	5·22·35	4·45·30	5·02·65	4·08·65	3·37·35
9												
10	1·42·80	2·12·00	2·32·90	2·49·00	2·35·90	1·36·40	2·13·45	2·13·45	3·09·65	5·19·55	4·21·30	3·45·70
11	2·37·00	2·11·35	2·47·80	3·25·90	3·09·40	3·09·40	4·14·90	3·40·70	3·05·30	3·05·30	4·02·80	3·27·10
12	2·29·40	2·17·80	2·37·40	3·15·40	3·08·50	2·11·55	4·30·50	5·26·80	5·26·80	5·17·95	5·20·30	5·20·30
13	1·24·90	2·21·50	3·45·50	3·30·70	4·07·30	2·25·00	3·08·00	1·49·10	3·24·50	4·00·70	2·31·60	2·22·75
14	3·39·15	3·34·15	3·34·15	3·34·15	2·23·30	2·33·90	3·42·35	4·14·00	3·06·90	2·40·05	3·42·25	4·27·80
15	2·21·10	2·25·10	3·34·50	4·11·10	4·03·80	3·23·85	3·23·85	2·36·05	3·18·00	3·07·55	3·44·25	4·00·50
16												
17	3·21·30	3·30·10	4·06·60	3·44·90	4·32·30	5·16·60	4·05·60	4·35·10	3·28·20	3·07·80	4·08·00	3·40·60
18	2·19·60	2·24·80	3·01·70	2·46·70	2·22·50	2·22·50	2·39·10	2·45·05	2·31·25	2·30·60	2·36·00	3·36·00
19	3·29·50	3·22·80	3·13·80	4·07·20	3·11·50	4·16·85	3·16·15	3·29·50	3·29·60	3·29·60	3·29·60	3·32·90
20	2·07·75	2·33·10	2·35·70	2·47·30	2·39·50	3·02·50	3·02·50	3·08·50	2·04·40	2·14·25	2·13·30	1·46·15
21	3·11·10	2·40·20	3·07·50	3·41·00	3·41·00	4·11·00	4·11·00	4·05·00	5·22·90	5·38·70	6·02·20	6·05·85
22	1·34·25	1·45·60	2·44·60	2·47·80	3·04·60	3·17·25	4·35·30	3·49·65	4·18·80	5·30·75	3·47·60	2·48·05
23	2·32·75	3·02·40	6·08·75	4·26·60	3·00·00	4·35·25	5·08·15	5·43·10	3·23·95	4·30·75	5·00·60	3·40·85
24												
25	4·40·40	3·39·10	6·14·60	5·37·90	5·00·20	5·44·05	5·38·90	6·24·00	6·06·40	8·01·80	4·48·15	3·30·40
26	3·40·05	3·13·00	4·02·20	3·46·00	2·39·50	2·39·50	3·15·00	3·15·20	3·15·20	3·00·00	2·35·55	3·33·35
27	3·07·50	2·27·80	3·02·10	3·15·60	3·10·40	3·17·00	3·17·00	4·26·30	4·32·35	4·35·25	4·45·00	4·42·50
28	3·30·50	3·22·50	3·38·60	4·23·20	4·01·80	2·36·90	2·25·40	3·18·00	3·39·40	4·30·00	3·33·50	3·07·50
29	1·29·50	1·17·30	2·47·00	2·28·00	2·13·60	2·15·20	3·07·30	3·19·70	4·14·00	2·43·50	2·46·50	3·21·00
30												
31	1·46·20	2·17·80	2·46·90	3·26·10	3·23·00	2·33·90	3·25·55	2·34·15	3·36·15	3·18·00	3·15·00	3·14·10

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
OCTOBER, 1847. 1	86°5	86°5	85°9	86°2	86°2	86°0	85°7	86°0	85°5	85°3	85°3	84°7
2												
3	86·9	86·3	86·0	86·5	86·0	86·0	86·0	85·5	85·2	85·2	84·8	85·0
4	86·7	86·5	86·3	86·5	86·4	85·6	85·5	85·5	85·5	85·2	84·7	85·0
5	87·9	86·5	85·5	86·4	86·8	86·0	85·8	85·0	85·0	85·0	84·7	84·7
6	87·0	86·5	86·4	86·8	87·0	86·5	86·0	86·0	86·5	85·5	85·4	85·6
7	87·0	86·4	85·9	86·0	85·9	85·5	85·8	85·5	85·0	86·0	84·5	84·5
8	86·9	86·3	86·2	86·5	86·8	86·5	86·5	86·5	87·0	86·7	86·2	85·8
9												
10	90·6	89·0	88·0	88·4	88·5	87·5	87·5	87·0	86·2	85·8	85·7	85·7
11	88·5	88·0	87·5	87·5	87·7	87·2	87·0	86·6	86·8	86·7	86·2	85·7
12	89·0	88·6	88·4	88·8	88·9	88·5	88·5	88·0	87·2	87·0	86·7	86·5
13	90·3	89·7	89·5	89·5	89·3	89·0	89·0	89·0	88·5	88·4	88·4	88·0
14	88·8	88·5	88·0	88·5	88·9	88·5	88·1	87·8	87·5	87·4	86·8	86·5
15	86·6	86·2	86·5	87·5	88·0	88·0	87·0	87·0	87·0	86·7	86·5	86·3
16												
17	89·0	88·5	88·4	88·5	88·5	89·2	87·8	87·6	87·5	87·6	87·2	87·2
18	88·8	88·0	88·4	88·9	88·5	88·3	87·6	87·5	87·5	87·0	86·8	86·8
19	88·7	88·0	87·5	88·3	88·4	88·0	87·5	87·5	87·5	87·0	86·5	86·5
20	88·8	88·4	88·4	88·5	88·4	87·9	87·5	87·5	87·0	86·9	86·2	85·8
21	87·7	86·4	86·5	87·0	87·2	87·0	86·6	86·8	87·5	86·6	86·5	87·2
22	88·0	87·5	87·5	87·5	87·5	87·5	87·5	86·5	86·0	86·0	85·7	85·7
23	89·0	88·0	88·5	88·4	88·4	88·5	88·3	87·5	87·5	87·5	87·2	87·0
24												
25	89·9	88·0	88·0	88·3	88·5	88·5	88·5	88·3	88·3	88·3	87·6	87·5
26	91·3	89·9	89·5	90·0	89·9	89·0	88·9	88·5	89·0	89·5	89·5	88·9
27	90·5	89·9	90·0	90·5	90·5	89·5	88·6	88·5	88·5	89·5	89·3	89·3
28	88·4	88·3	88·3	88·5	88·8	88·0	87·9	87·0	87·0	87·0	87·0	86·5
29	89·1	88·2	88·3	88·5	88·5	88·5	88·0	87·6	87·6	87·6	87·6	86·6
30												
31	88·9	88·3	87·9	88·0	88·2	88·0	87·5	87·0	86·8	87·0	87·0	87·0

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

OCTOBER, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	5·32·10	5·15·00	5·00·40	4·36·90	3·32·60	2·22·00	1·30·75	0·36·10	1·27·80	3·21·75	3·41·00	3·34·60
2												
3	4·35·50	5·10·50	6·10·40	5·19·50	3·43·50	2·33·75	1·09·90	1·06·45	2·39·00	5·47·65	6·05·40	5·33·45
4	4·38·25	6·06·60	7·17·30	5·12·40	3·06·20	1·12·00	−0·35·00	−0·43·70	1·00·70	3·48·60	5·06·00	5·00·70
5	5·33·90	4·18·60	5·08·10	4·40·40	2·41·30	−1·03·00	−1·08·20	0·24·30	1·14·70	3·15·40	4·27·00	4·25·50
6	2·49·60	2·14·30	4·25·90	4·47·70	2·49·50	−0·23·20	−2·30·65	−2·00·80	−0·01·80	2·39·65	3·14·75	3·00·00
7	3·45·95	4·25·80	5·25·50	4·33·90	2·39·60	−0·11·60	−1·10·00	−1·18·90	−0·22·85	2·47·50	2·49·45	3·24·20
8	4·26·85	5·27·25	4·35·00	4·18·20	3·03·00	1·15·00	−0·42·90	0·10·80	0·44·65	2·11·30	2·30·05	2·47·00
9												
10	3·05·20	4·25·50	5·09·10	5·18·20	4·24·00	−0·03·00	−1·02·60	−2·04·90	−0·33·65	1·39·40	3·05·10	3·18·80
11	3·27·10	3·37·10	5·14·30	5·14·30	3·23·80	1·30·40	−0·01·90	0·23·25	0·31·20	2·03·00	2·45·80	2·36·90
12	3·47·80	3·47·80	5·10·50	4·39·90	3·08·10	1·06·65	0·22·40	0·13·50	1·04·40	1·42·70	2·45·50	2·02·30
13	2·18·35	3·03·30	3·41·90	4·18·90	4·18·90	3·23·40	2·06·95	1·11·50	2·01·50	3·22·00	3·11·30	3·17·20
14	3·34·10	4·47·70	5·24·60	5·24·50	3·36·90	3·00·40	1·37·90	0·30·10	1·38·90	2·15·75	2·39·10	2·39·10
15	3·29·85	4·49·00	5·44·80	5·31·10	4·11·10	2·12·50	0·40·40	0·08·50	1·11·60	2·34·10	3·27·15	4·05·95
16												
17	2·30·40	2·30·40	2·48·70	3·33·50	3·36·10	2·22·25	1·44·45	2·29·50	3·06·30	4·26·40	3·45·20	2·46·30
18	3·08·45	4·26·50	5·03·50	5·03·50	4·11·90	2·47·00	1·10·80	0·09·60	2·05·40	2·19·60	3·09·60	3·29·50
19	3·44·45	4·07·00	5·06·80	4·43·40	3·42·80	2·47·70	2·12·65	1·17·00	2·19·35	3·25·90	3·30·85	2·44·10
20	2·23·30	3·16·30	4·16·40	4·16·40	3·49·10	2·21·00	3·11·20	3·41·10	4·07·35	3·47·25	4·14·00	3·29·10
21	3·27·25	3·38·30	5·05·50	4·36·70	2·43·10	0·48·50	1·11·00	1·11·20	2·42·75	3·38·65	3·39·80	2·38·90
22	3·06·20	3·24·20	4·30·30	4·30·30	2·00·20	2·36·80	0·36·25	1·21·75	4·41·00	4·48·05	8·35·10	5·02·25
23	4·11·45	5·21·20	7·01·30	4·34·30	3·15·40	2·38·90	2·29·60	2·13·40	4·40·40	3·26·00	4·38·70	5·17·00
24												
25	3·39·15	5·25·50	7·35·00	5·27·80	3·31·20	2·00·25	0·02·20	−0·30·50	1·18·05	2·13·10	2·26·85	2·30·05
26	4·09·10	3·48·50	6·20·10	5·41·20	3·49·10	1·26·40	0·04·15	0·19·35	2·21·40	4·04·25	4·25·90	3·36·90
27	4·27·10	4·34·10	5·40·70	5·49·90	4·45·60	2·46·80	1·14·15	1·14·15	2·02·70	3·13·80	3·14·60	3·11·50
28	2·43·00	2·26·80	4·00·40	4·13·80	3·13·00	1·06·55	0·22·70	0·10·50	1·45·70	2·16·40	1·40·00	1·39·50
29	3·44·00	3·44·05	4·43·20	3·29·00	2·40·40	2·32·10	1·23·00	0·38·00	2·08·15	3·35·50	3·21·00	3·35·00
30												
31	3·10·50	3·14·90	3·28·70	3·11·00	2·02·70	2·43·60	2·26·90	2·31·30	3·27·50	3·28·50	3·35·00	2·20·00

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

OCTOBER, 1847. Göttingen Mean Time.	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
I	84°0	84°4	83°7	82°9	82°9	83°5	84°0	84°0	84°5	85°5	86°2	87°0
2												
3	85·0	85·4	84·8	83·8	84·0	84·5	85·4	85·5	86·0	86·4	86·6	86·6
4	84·7	85·4	84·1	83·0	83·3	84·0	84·5	85·0	85·2	86·0	86·6	87·0
5	84·6	84·7	84·0	82·6	83·0	83·5	84·5	84·7	85·0	85·5	86·2	86·8
6	85·6	85·5	84·5	83·3	83·0	83·8	84·5	85·0	85·3	85·5	86·2	86·9
7	84·2	84·3	83·7	82·6	82·6	83·0	84·0	84·5	84·7	85·5	86·0	86·0
8	85·6	85·4	84·0	83·0	83·0	84·0	84·6	85·0	85·5	86·2	86·7	86·4
9												
10	85·5	85·4	84·5	83·4	83·6	84·5	86·0	86·5	86·5	87·5	88·0	88·5
11	85·5	85·5	85·0	84·4	84·5	85·4	86·5	87·5	88·0	88·3	88·7	89·2
12	86·5	86·5	85·9	84·9	84·9	85·5	86·5	87·5	88·5	89·2	89·9	90·6
13	87·0	87·2	86·0	84·9	84·8	85·0	86·0	86·5	87·5	88·0	88·5	88·7
14	86·3	85·9	84·5	83·4	83·0	83·5	84·5	86·5	86·3	86·4	86·3	86·5
15	86·0	85·5	84·5	83·0	82·8	83·3	84·3	85·0	85·5	86·0	86·5	87·0
16												
17	87·0	87·5	86·4	85·0	85·0	85·5	86·0	86·6	87·1	87·7	88·3	88·7
18	86·7	86·5	86·0	85·0	85·1	85·0	85·5	86·5	87·0	87·5	88·2	88·5
19	86·2	86·4	86·0	84·5	84·5	85·0	85·9	86·5	87·0	87·5	88·2	88·7
20	85·7	85·8	83·8	82·7	82·5	82·5	83·0	84·0	84·9	85·7	86·5	87·2
21	86·8	86·5	85·3	83·9	83·9	84·0	84·7	86·0	86·5	86·7	87·5	88·0
22	85·9	86·0	86·0	84·1	84·0	84·5	85·3	86·0	86·5	87·3	88·3	89·0
23	86·8	87·1	86·0	84·8	85·0	85·0	86·0	87·2	88·0	88·0	87·5	87·2
24												
25	87·3	87·0	86·9	85·4	85·2	85·5	86·5	87·5	88·0	88·6	89·7	90·3
26	88·0	88·0	87·4	85·8	85·5	86·0	86·6	87·7	88·5	89·5	90·2	90·6
27	89·1	87·4	86·8	85·0	85·0	85·0	86·0	87·0	88·0	88·3	88·4	88·2
28	86·6	86·5	85·5	84·0	84·1	84·6	85·5	86·5	89·0	87·5	88·0	88·5
29	86·1	85·5	84·5	83·0	83·0	84·0	84·7	86·0	89·3	88·2	88·5	89·4
30												
31	87·1	86·5	85·7	84·9	85·0	85·0	85·5	86·0	86·5	56·8	88·3	87·9

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
NOVEMBER, 1847.	*d*	*d*	*d*	*d*	*d*	*d*	*d*	*d*	*d*	*d*	*d*	*d*
1	2·21·50	1·45·50	2·41·20	4·03·10	3·22·70	3·04·65	3·04·65	3·04·65	3·04·65	3·31·00	3·31·00	4·10·00
2	1·41·50	1·40·00	3·22·50	3·32·50	3·26·05	3·40·90	4·16·40	3·13·10	3·21·00	3·09·00	3·30·00	2·35·00
3	1·13·50	0·33·50	2·16·10	2·14·00	2·03·30	2·32·45	4·09·75	5·17·50	2·33·95	2·44·50	3·36·00	4·19·60
4	2·11·00	2·25·50	2·26·00	3·41·28	3·01·20	3·23·15	3·23·15	3·34·80	3·34·80	4·15·0	4·25·0	2·24·65
5	2·03·50	1·15·25	1·44·30	2·03·15	1·23·70	1·23·70	2·01·90	2·16·40	1·27·00	1·20·50	2·17·50	2·18·50
6												
7	3·15·50	3·15·50	3·33·70	3·33·70	3·28·60	2·26·95	3·01·90	3·01·90	3·01·85	2·26·50	2·26·50	2·46·50
8	5·22·50	3·14·20	2·33·75	2·34·20	2·34·20	1·41·60	2·02·45	2·09·50	2·21·50	2·44·50	2·44·50	2·15·25
9	4·31·50	2·49·40	3·43·00	3·45·00	4·07·60	4·02·10	3·24·50	4·19·00	4·26·50	4·39·00	6·11·50	5·22·0
10	2·45·21	2·03·20	2·47·05	3·02·60	2·20·20	3·37·35	3·47·70	4·05·80	4·30·40	4·08·50	4·19·50	4·25·40
11	4·41·50	2·17·80	2·49·00	2·49·00	2·07·00	2·16·00	2·46·85	4·02·55	1·33·70	1·32·00	3·23·75	2·21·25
12	2·17·00	1·45·00	2·03·20	1·22·50	0·30·00	0·11·50	1·30·03	2·03·80	1·24·10	0·35·50	2·18·50	1·23·00
13												
14	1·09·40	0·48·90	2·09·40	2·36·00	2·39·50	2·11·60	2·00·20	2·15·85	2·07·00	2·36·00	2·36·00	2·47·00
15	2·39·00	1·44·70	2·07·80	2·12·95	2·12·95	1·12·55	2·08·55	1·40·55	1·40·55	1·30·00	2·28·00	2·28·00
16	1·44·00	1·23·60	1·40·90	1·40·90	1·07·50	2·15·55	2·04·00	2·01·25	2·21·55	2·07·50	2·45·55	2·20·50
17	2·31·45	2·25·00	3·18·60	3·32·00	3·17·50	4·00·50	2·49·60	2·39·50	2·46·55	3·17·00	3·06·00	5·37·75
18	3·23·00	2·04·50	3·02·80	2·22·50	1·42·40	2·10·55	1·29·50	2·00·25	1·39·50	2·24·50	2·10·80	1·48·25
19	1·24·00	1·20·00	2·17·20	2·20·80	2·06·60	3·35·25	1·36·25	1·49·50	2·29·50	3·17·50	1·49·0	1·27·00
20												
21	1·29·30	1·49·40	3·00·60	2·43·30	2·32·20	3·04·50	2·28·85	2·35·75	2·47·75	3·08·75	3·42·50	4·06·50
22	1·09·00	1·33·05	2·45·20	3·04·50	3·35·00	3·31·70	4·31·50	3·39·50	2·10·75	3·09·00	1·33·60	2·43·60
23	2·24·50	2·41·30	3·16·50	3·32·50	3·07·20	3·40·65	3·40·65	3·20·25	3·18·75	2·28·00	2·35·60	3·35·75
24	2·00·00	1·49·00	2·00·50	2·11·50	1·40·10	2·20·35	2·20·35	2·40·00	2·40·00	3·10·25	3·05·00	2·39·50
25	4·00·50	3·26·80	4·01·90	4·31·75	3·44·00	4·26·25	5·27·50	5·32·00	5·29·00	4·16·00	4·16·00	5·17·00
26	4·20·00	3·47·90	5·28·50	4·20·50	3·05·00	3·12·95	3·12·95	2·84·75	2·45·15	3·40·00	3·23·50	3·02·90
27												
28	0·41·10	0·41·10	1·20·00	1·31·10	0·44·70	0·41·75	0·47·95	0·41·75	0·41·75	0·12·00	1·11·50	1·14·50
29	1·15·50	1·19·00	1·27·50	2·02·00	1·39·10	2·03·50	2·35·75	1·34·40	2·11·15	2·36·50	1·36·00	1·30·85
30	2·02·50	0·32·50	2·11·50	2·47·00	2·18·50	2·16·45	0·41·60	0·18·90	1·29·75	0·08·50	0·25·00	0·32·00

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
NOVEMBER, 1847.												
1	87°9	87°1	87°7	87°4	85°9	85°3	85°5	85°5	85°6	86°0	89°0	87°2
2	86·8	84·7	85·4	86·0	86·2	85·0	86·0	86·5	86·0	86·0	84·5	84·6
3	85·6	85·0	86·0	86·4	86·5	86·0	85·5	85·5	85·0	85·0	85·2	85·5
4	81·6	80·8	81·4	81·6	81·6	81·5	81·3	81·0	81·0	81·5	80·5	80·3
5	76·6	76·6	77·6	78·0	78·0	78·3	78·6	78·5	78·5	79·0	79·0	79·5
6												
7	78·8	78·5	78·4	78·7	78·6	77·6	77·5	77·2	77·5	77·5	77·5	77·0
8	81·0	80·0	79·8	80·0	80·0	79·5	78·7	78·5	78·5	78·5	78·5	79·5
9	82·0	80·6	80·6	81·3	81·3	81·5	81·5	81·0	81·0	81·0	79·5	79·5
10	81·2	80·4	81·1	81·6	81·6	80·5	80·5	80·9	80·5	79·8	79·8	79·0
11	83·0	81·6	81·6	81·9	81·7	81·5	80·5	80·5	80·0	80·0	80·0	79·5
12	84·0	82·7	83·0	83·6	83·5	83·0	82·0	81·5	82·0	80·5	80·5	80·5
13												
14	83·5	83·3	83·3	83·5	83·0	83·0	82·0	82·9	82·5	82·4	82·2	81·5
15	84·5	83·5	84·0	84·5	84·5	84·5	83·0	83·0	83·2	83·5	82·0	81·5
16	84·5	83·0	83·0	83·3	83·4	83·0	82·5	82·5	81·5	81·5	81·4	80·5
17	84·5	83·0	83·4	83·7	83·5	83·0	82·9	81·5	81·8	81·6	81·1	80·5
18	84·6	82·8	82·8	83·0	82·7	81·0	82·0	82·2	81·0	80·0	80·0	80·0
19	84·5	83·3	84·1	84·7	84·5	83·8	83·5	82·0	81·5	81·5	81·1	80·5
20												
21	84·0	83·3	83·0	82·8	82·4	81·9	81·5	81·1	81·1	81·4	80·8	80·2
22	83·6	82·7	83·4	83·3	83·5	83·5	82·9	82·5	82·0	82·0	81·4	81·0
23	83·6	82·5	82·3	83·3	82·3	82·2	81·5	81·5	81·0	81·0	80·0	80·0
24	84·2	82·5	83·2	83·3	82·4	82·0	81·8	81·5	81·5	81·1	80·0	81·0
25	83·5	82·5	82·8	82·9	83·4	82·8	82·5	82·0	82·6	82·0	82·0	81·0
26	83·4	82·3	82·7	82·5	82·6	82·5	82·5	82·8	81·5	82·2	81·5	81·0
27												
28	80·5	79·7	79·5	79·4	79·0	78·0	78·5	78·5	77·7	77·4	76·5	76·2
29	79·0	78·0	78·5	79·2	78·5	78·0	78·0	77·6	76·8	76·6	76·6	76·2
30	81·2	80·3	80·7	81·6	81·0	80·5	80·0	80·0	79·9	79·5	79·5	79·5

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

NOVEMBER, 1847. Göttingen Mean Time.	12h.0	13h.0	14h.0	15h.0	16h.0	17h.0	18h.0	19h.0	20h.0	21h.0	22h.0	23h.0
	d	d	d	d	d	d	d	d	d	d	d	d
1	4.13.00	3.24.20	3.24.20	3.24.20	2.44.10	2.01.05	0.27.20	0.47.45	1.23.40	3.10.00	3.10.00	2.12.50
2	2.35.00	2.47.80	4.04.60	3.12.30	1.26.80	0.33.45	−1.08.50	−1.05.65	0.26.35	1.16.00	1.41.51	2.08.50
3	3.35.50	2.40.80	3.37.60	3.47.50	2.35.40	0.41.30	0.21.80	1.14.45	2.26.95	3.27.50	3.30.00	2.21.85
4	1.27.20	3.03.10	4.14.40	3.36.40	3.19.50	2.40.25	0.40.40	1.30.73	2.22.60	2.22.00	1.39.50	2.26.00
5	2.36.30	2.41.00	3.25.90	3.47.00	2.39.30	0.22.60	0.07.30	0.22.80	1.45.55	1.45.50	2.00.00	2.23.00
6												
7	2.32.30	3.22.00	3.22.00	3.38.10	3.13.00	2.32.75	1.48.70	2.20.50	2.14.80	3.3.500	2.17.00	3.14.50
8	2.41.00	2.31.50	4.36.50	3.12.30	3.00.20	2.23.50	1.33.15	2.11.20	3.11.65	4.14.00	3.02.00	2.32.50
9	5.24.20	4.05.60	3.37.90	3.14.60	3.28.50	2.25.60	0.23.50	0.09.00	1.29.10	2.16.00	2.16.00	2.27.50
10	5.10.50	4.25.20	4.10.40	3.24.00	2.08.00	0.35.50	0.29.70	0.24.40	1.30.10	2.36.00	2.28.50	2.26.50
11	2.29.10	3.48.90	5.34.80	3.31.20	3.06.50	2.00.20	1.21.65	1.23.45	2.22.95	2.36.50	2.01.50	2.00.00
12	1.01.60	−0.04.50	−0.04.50	2.32.00	3.27.50	3.01.15	1.42.80	1.14.25	2.00.20	2.36.00	2.06.50	1.28.50
13												
14	3.17.20	3.04.20	3.36.60	3.36.00	3.09.00	2.40.60	1.14.95	0.39.25	0.37.95	2.07.50	2.31.00	2.42.00
15	2.24.80	2.38.60	2.42.50	3.31.80	2.37.50	1.44.30	0.36.50	1.05.05	2.03.50	2.07.00	2.07.00	2.32.75
16	2.43.00	3.22.90	4.04.40	3.12.30	3.44.25	3.31.35	2.35.25	2.01.50	3.02.00	3.11.50	3.17.00	3.17.00
17	5.02.80	5.02.80	4.29.90	3.12.00	2.39.00	2.27.75	2.27.75	2.09.40	2.05.00	2.19.85	2.42.00	2.08.50
18	2.05.40	4.06.00	3.48.50	2.33.80	2.38.50	2.23.25	1.48.50	0.10.50	0.45.00	2.16.50	2.21.50	2.19.50
19	1.21.00	2.07.00	2.23.70	0.49.30	1.33.00	3.37.00	3.27.50	4.09.25	3.38.15	2.08.60	2.15.50	3.35.65
20												
21	4.15.20	4.22.90	3.47.00	2.26.50	2.14.50	2.13.50	1.24.25	1.40.60	2.07.75	1.44.50	1.17.00	1.00.00
22	2.27.40	3.28.50	2.38.00	1.12.20	0.27.00	5.48.40	5.45.55	5.16.10	5.13.05	4.34.50	3.06.00	2.20.50
23	3.49.60	3.14.90	3.35.30	2.42.70	2.30.00	2.11.75	2.38.75	2.03.75	2.48.25	3.06.00	2.39.50	2.15.75
24	3.35.30	3.47.40	2.21.30	2.32.20	1.27.00	2.05.50	1.21.20	1.37.75	2.45.60	4.26.0	5.00.00	4.11.25
25	4.38.90	3.11.10	4.25.50	3.25.10	3.25.00	4.06.85	4.24.95	4.30.50	4.11.50	4.49.50	4.10.50	4.10.50
26	3.13.90	2.33.50	2.33.50	1.48.00	2.32.35	1.42.75	0.33.25	0.13.00	0.04.25	0.41.00	1.25.00	1.39.00
27												
28	1.35.80	1.35.80	0.33.20	1.26.10	2.06.00	2.06.95	0.35.90	−0.37.70	−0.25.25	0.42.75	1.08.80	1.08.80
29	1.30.85	0.41.50	1.28.30	1.16.70	1.16.70	1.07.55	−0.08.50	−0.44.90	−1.27.60	−0.14.50	0.42.30	1.17.50
30	1.11.50	0.28.50	1.08.00	1.13.50	1.32.50	1.31.20	−0.16.00	−0.49.70	−0.48.65	−1.06.00	−1.18.00	−0.25.00

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

NOVEMBER, 1847. Göttingen Mean Time.	12h.0	13h.0	14h.0	15h.0	16h.0	17h.0	18h.0	19h.0	20h.0	21h.0	22h.0	23h.0
	°	°	°	°	°	°	°	°	°	°	°	°
1	87·2	86·0	85·3	83·9	83·5	83·5	83·7	84·5	85·5	85·6	86·0	86·3
2	84·7	84·5	83·5	81·6	81·4	81·5	82·5	84·0	84·0	85·0	85·6	85·6
3	85·5	85·0	84·0	82·5	82·0	82·5	83·5	84·0	84·0	83·2	84·5	81·9
4	80·5	80·0	79·4	78·0	76·0	77·3	77·2	77·0	77·0	77·0	77·0	76·6
5	78·6	78·4	78·0	76·9	76·8	77·5	78·5	78·7	78·1	79·5	79·8	79·8
6												
7	77·1	76·5	76·0	74·5	75·0	75·5	76·5	77·5	78·2	78·5	80·0	80·5
8	77·2	77·9	77·4	75·5	75·4	76·0	77·0	78·2	79·2	79·2	81·0	81·5
9	79·3	78·5	77·8	76·4	77·2	77·0	78·0	79·0	79·5	80·3	81·0	81·5
10	78·4	78·0	77·7	76·0	76·4	76·5	78·0	78·0	80·5	80·8	81·0	82·5
11	78·5	78·5	77·9	76·3	78·9	76·5	78·0	79·5	80·5	81·5	83·0	83·5
12	80·8	81·0	80·8	77·7	77·7	78·0	79·0	80·0	81·8	83·0	83·5	84·4
13												
14	81·3	80·5	80·3	78·6	78·8	79·0	81·0	81·5	81·9	83·0	84·0	84·5
15	81·3	80·5	80·2	78·4	78·5	79·0	79·5	80·5	81·5	83·0	84·5	84·2
16	80·2	79·9	79·5	78·2	78·2	79·0	79·6	81·0	82·0	83·0	84·0	84·5
17	79·8	79·1	78·5	77·3	77·3	77·5	78·5	80·0	81·0	82·5	83·5	84·4
18	79·9	79·0	78·0	76·8	76·5	77·0	78·2	80·0	81·0	82·0	83·2	84·4
19	79·8	79·4	78·4	77·3	77·3	77·6	78·0	79·5	80·5	81·7	83·0	84·2
20												
21	79·5	79·0	78·5	77·5	77·6	78·5	79·0	80·5	81·5	82·5	83·2	83·6
22	80·5	80·0	79·4	77·7	77·5	78·0	79·5	80·0	81·0	82·2	82·8	83·1
23	79·8	79·0	78·5	77·2	77·2	77·5	78·5	80·5	81·5	82·4	83·4	84·0
24	80·9	79·9	79·0	77·9	77·5	78·0	78·5	80·0	81·0	81·9	82·6	83·5
25	80·5	79·9	79·5	78·0	77·5	78·0	79·0	80·5	81·2	82·0	82·5	83·2
26	80·0	80·0	79·9	78·0	77·8	78·0	78·3	79·5	80·5	81·0	81·3	81·8
27												
28	75·4	75·0	74·8	73·0	73·0	73·5	74·5	75·0	76·5	77·5	78·0	78·5
29	75·5	75·0	74·4	72·4	73·2	73·0	74·5	75·6	76·5	78·0	79·5	80·4
30	79·7	79·0	79·5	78·5	77·5	78·1	78·8	80·0	81·0	82·5	82·8	84·5

DECEMBER, 1847.

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings.)*

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
	t d.	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*	*t d.*
1	-0·02·00	0·00·00	1·14·50	2·22·50	1·40·50	2·10·10	2·01·10	2·49·50	2·04·50	1·29·65	1·29·65	2·13·00
2	0·03·75	0·36·00	2·16·00	2·17·70	1·40·00	1·17·90	1·17·90	3·14·50	3·02·85	2·18·60	1·17·00	1·40·50
3	0·27·50	0·31·50	0·39·50	1·11·30	1·12·10	0·27·35	0·27·35	1·13·00	1·21·85	0·43·50	1·10·00	1·10·00
4												
5	0·32·00	0·48·90	1·17·60	2·01·50	2·31·80	2·02·90	0·41·55	0·41·55	2·15·10	3·33·50	2·13·25	2·26·80
6	-0·04·00	0·14·60	1·44·60	2·17·90	2·17·20	1·31·95	1·40·50	1·26·65	1·30·50	0·48·50	1·32·05	1·42·50
7	0·22·00	0·14·00	1·15·00	1·24·90	1·42·50	2·05·65	2·06·65	1·04·10	1·19·25	2·12·50	1·20·50	1·13·25
8	-0·26·20	0·11·00	0·37·50	1·25·50	1·22·10	0·40·75	0·05·15	-0·12·45	-0·12·45	0·12·50	0·21·25	-0·01·15
9	1·47·90	2·04·90	2·12·00	3·23·00	3·06·70	2·34·05	2·05·75	1·47·95	1·47·95	1·25·00	2·17·15	1·25·40
10	0·20·00	0·45·80	1·36·00	1·35·50	1·15·50	1·15·50	0·46·80	1·48·10	1·43·10	1·35·50	1·11·00	1·11·00
11												
12	1·28·50	2·18·00	1·44·50	2·03·90	2·24·00	2·42·50	2·36·00	1·47·30	1·33·30	2·44·00	2·19·00	1·44·00
13	1·34·50	1·37·10	2·09·70	2·45·00	2·27·00	2·24·65	2·24·65	2·19·75	2·17·60	2·19·95	2·09·20	1·09·80
14	1·12·00	1·36·90	1·45·90	2·18·00	2·19·80	1·48·75	2·23·50	2·45·20	3·05·50	2·39·50	2·16·00	2·36·00
15	2·06·00	2·28·00	3·12·50	3·22·50	3·16·90	2·46·75	2·40·50	3·14·00	3·29·25	3·18·35	2·29·00	1·47·00
16	0·38·50	1·02·50	0·43·50	0·47·00	0·42·60	0·32·55	-0·45·10	-0·29·05	1·05·85	0·08·50	0·24·50	1·08·00
17	0·27·00	-0·27·50	1·10·50	0 35·80	2·38·00	-0·28·60	8·25·50	1·31·60	2·23·85	1·41·00	3·06·00	3·48·00
18												
19	—	0·49·60	1·45·00	1·34·20	2·32·50	1·27·50	2·18·25	1·37·35	3·26·05	3·49·50	1·45·50	0·04·70
20	2·28·50	-1·19·50	1·06·00	2·04·40	1·91·50	3·07·25	3·17·70	2·48·00	1·01·90	4·20·50	4·0 0·00	-0·10·55
21	4·37·60	3·35·50	2·35·50	2·33·50	2·42·50	2·67·75	1·30·50	1·30·50	1·44·60	1·22·60	1·26·60	3·15·75
22	1·23·00	1·36·50	1·32·30	1·18·50	1·03·50	1·03·50	1·20·10	2·01·55	2·01·55	2·02·40	2·02·40	2·06·00
23	0·24·50	0·20·80	1·26·50	1·27·80	1·18·00	1·18·00	1·05·75	1·01·50	1·01·50	1·15·50	0·24·50	0·14·50
24	0·29·00	0·05·50	1·31·00	1·12·00	1·38·50	—	—	—	—	—	—	—
25												
26	1·15·60	0·43·50	1·06·00	1·28·00	1·19·40	1·35·30	1·35·30	2·37·80	2·39·05	2·22·00	1·43·00	1·41·50
27	0·44·00	0·35·50	1·03·00	0·45·50	0·19·50	0·28·25	0·49·65	1·23·75	0·32·25	0·42·25	1·30·00	2·07·00
28	0·25·00	0·01·00	0·21·00	1·04·00	0·48·50	0·30·00	1·05·35	2·01·90	1·21·75	1·23·00	1·28·50	1·27·10
29	0·19·00	-0·08·50	0·17·00	0·34·00	0·36·50	0·14·50	-0·13·05	0·17·75	-1·02·50	-0·20·00	-0·16·00	-0·32·00
30	-0·39·40	-0·26·10	0·04·50	0·33·30	1·13·00	0·31·60	0·05·50	0·05·50	-0·07·50	-0·05·00	-0·13·15	-0·24·50
31	-0·19·00	-0·18·70	0·40·00	0·16·50	-0·06·00	0·14·35	1·43·95	1·38·50	1·13·55	1·05·55	0·36·15	0·18·00

DECEMBER, 1847.

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

Göttingen Mean Time	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	84°5	84°0	84°0	84°5	83°7	83°2	82°5	82°5	82°5	82°2	81°8	81°6
2	83·6	83·7	83·6	84·0	84·0	84·5	83·5	83·2	82·5	82·5	82·5	82·4
3	84·0	83·7	83·4	83·5	83·2	83·0	82·7	82·5	82·2	82·0	81·4	81·0
4												
5	83·7	83·6	83·7	83·6	83·7	83·0	83·0	82·5	82·5	82·2	81·6	80·7
6	85·7	84·7	84·5	84·7	84·4	83·6	83·5	83·0	83·0	83·4	82·7	82·2
7	86·2	85·6	84·3	84·5	84·3	84·0	83·5	82·5	82·5	82·5	82·5	81·9
8	85·5	84·4	84·0	83·8	83·7	83·5	83·2	83·2	83·2	83·0	82·5	81·4
9	83·2	82·9	82·5	82·3	82·7	82·8	82·5	82·0	82·0	82·6	81·6	80·5
10	82·8	82·7	82·5	81·6	81·4	82·5	82·5	81·5	81·5	81·5	81·4	80·4
11												
12	80·5	79·7	79·1	79·7	79·5	79·9	78·5	78·5	78·0	78·0	77·5	77·1
13	81·3	81·5	81·7	81·6	81·8	81·6	81·5	81·5	81·0	80·3	79·7	79·5
14	82·4	81·5	81·3	81·5	81·3	81·0	80·3	80·4	80·0	80·0	79·5	79·3
15	82·5	81·9	81·9	81·7	81·4	80·5	80·5	80·5	80·0	80·2	80·2	80·2
16	80·7	80·4	80·5	81·0	81·3	80·7	80·0	79·9	78·9	78·3	78·3	77·6
17	81·2	80·4	80·2	80·0	80·2	79·8	79·2	78·5	78·4	77·7	77,2	77·0
18												
19	—	82·4	81·8	81·6	81·4	80·8	80·5	80·4	80·0	79·7	79·5	78·8
20	82·0	81·9	81·8	81·7	81·6	81·4	81·0	80·8	80·4	80·5	80·7	80·5
21	82·4	82·3	81·7	81·5	81·7	81·5	81·5	81·9	81·5	81·2	81·1	80·7
22	81·3	81·9	81·8	81·7	81·7	81·0	81·0	81·0	81·0	80·5	80·3	80·2
23	80·5	80·3	80·3	80·7	81·3	81·2	81·0	81·0	81·0	80·8	80·9	80·6
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	81·0	80·5	80·5	80·5	80·4	80·0	79·5	79·5	79·5	79·0	78·5	78·2
27	82·7	81·9	81·7	82·0	81·7	81·2	81·5	81·6	81·5	80·8	80·8	80·0
28	82·7	82·4	82·0	81·9	81·8	81·5	81·5	81·5	81·5	81·4	81·4	81·0
29	83·6	82·8	83·0	83·0	82·8	81·7	81·5	81·5	81·5	81·0	80·5	80·4
30	83·6	82·9	82·7	82·6	82·5	81·8	81·6	81·2	81·0	80·5	80·5	80·4
31	84·8	83·7	83·5	83·2	82·7	82·4	82·4	82·5	82·5	82·5	82·5	81·8

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

DECEMBER, 1847.

Göttingen Mean Time.	12h 0	13h 0	14h 0	15h 0	16h 0	17h 0	18h 0	19h 0	20h 0	21h 0	22h 0	23h 0
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	2·22·20	2·21·40	1·36·00	0·22·00	1·47·00	1·18·60	1·33·05	−0·20·50	0·26·40	1·08·50	1·25·00	0·45·50
2	2·35·75	2·04·00	1·33·70	0·09·80	0·27·50	1·32·15	0·12·00	0·12·45	0·21·45	0·39·85	0·16·25	0·48·50
3	1·22·00	1·24·00	0·06·00	0·19·80	0·27·50	1·17·30	−0·19·60	−1·17·20	−1·17·20	−1·15·00	−0·04·00	0·41·50
4												
5	2·35·55	1·42·50	2·35·50	1·25·00	1·43·85	1·28·15	0·40·00	−0·31·75	0·20·15	1·01·00	0·38·50	−0·07·50
6	3·32·25	2·41·50	2·39·00	0·48·60	0·37·50	0·31·00	0·30·95	−0·33·20	−0·25·50	0·14·50	0·05·00	0·21·35
7	2·10·05	2·25·00	2·00·75	1·43·40	2·16·80	1·34·10	1·30·65	0·48·80	1·06·35	0·34·50	0·32·00	−0·42·00
8	2·21·00	2·15·50	1·04·40	1·07·40	2·22·90	2·07·95	2·07·95	1·47·90	0·27·00	1·13·50	2·09·00	1·39·95
9	3·23·20	3·18·00	2·47·50	1·36·50	1·48·00	2·09·25	2·05·80	1·33·95	0·42·75	0·48·00	1·06·50	0·25·00
10	2·26·50	2·15·50	2·18·00	2·01·15	1·45·50	1·09·15	1·46·50	1·08·25	0·40·00	0·38·00	−0·09·50	0·14·50
11												
12	2·43·00	2·30·00	1·35·00	2·03·50	2·29·10	2·31·75	1·49·00	1·48·90	2·35·50	2·33·00	1·45·00	0·35·50
13	1·49·40	1·45·00	1·43·00	0·02·50	2·37·50	2·17·15	2·00·00	2·11·15	0·43·40	0·15·00	−0·02·70	0·21·25
14	2·41·00	2·47·80	2·13·90	2·19·00	3·30·70	3·18·50	3·05·10	3·34·35	3·31·15	3·03·95	2·10·20	0·38·00
15	1·03·50	0·40·75	1·08·50	0·46·80	1·16·70	1·10·35	1·25·20	0·47·60	−0·09·60	−0·29·85	−1·15·00	−0·23·00
16	0·30·10	−0·30·00	−0·04·50	0·21·00	1·05·80	1·20·00	0·33·20	0·29·90	−0·30·10	−1·12·00	−2·06·50	−1·39·00
17	2·44·50	2·39·80	2·32·50	0·28·00	1·10·00	1·01·20	3·11·35	3·32·35	3·29·90	3·20·00	3·49·00	2·40·00
18												
19	1·28·00	1·02·00	−0·44·50	2·03·00	3·37·00	4·01·25	5·18·80	3·04·30	0·23·40	1·15·00	0·28·65	1·33·00
20	2·35·00	2·01·00	1·20·00	−2·09·00	−1·47·50	−0·01·00	−0·07·90	−1·07·00	0·32·10	3·07·65	4·46·0	5·04·65
21	2·02·50	2·15·50	2·44·50	1·26·50	0·48·00	0·07·40	−1·02·25	−1·02·25	0·07·50	1·15·50	2·17·00	1·17·50
22	2·19·00	1·12·00	1·05·00	0·48·00	0·46·00	0·35·05	−0·10·50	−0·12·30	−0·09·65	1·01·20	1·08·50	1·27·15
23	1·07·00	0·31·00	−1·05·10	0·17·00	1·01·00	0·44·65	−0·24·30	−1·25·05	0·22·40	1·36·50	1·40·50	1·22·00
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	2·05·00	2·09·00	1·42·00	1·09·00	1·45·00	1·31·50	1·11·10	0·41·00	0·12·65	0·25·00	0·44·50	1·17·00
27	0·46·50	1·08·50	2·23·50	−1·32·50	1·27·50	0·25·90	−0·24·25	−0·27·80	0·11·75	0·13·50	0·09·50	0·21·00
28	0·42·50	0·15·50	1·00·50	1·11·00	1·33·50	1·07·50	−0·00·40	−1·19·00	−0·26·50	0·01·25	−0·26·75	−0·06·30
29	0·27·00	0·11·50	0·05·75	0·48·80	1·07·00	0·15·00	−1·11·50	−0·48·90	0·29·70	0·18·50	−0·23·50	−0·17·00
30	−0·05·00	−0·41·50	0·06·00	0·07·00	1·03·00	1·06·00	−0·10·75	−2·07·00	−1·27·05	−0·18·75	−0·25·50	−0·17·50
31	−0·12·80	0·15·50	0·20·00	0·43·50	1·01·00	0·01·85	−1·26·70	−2·38·59	−2·04·75	−0·11·00	−0·20·00	0·02·50

THERMOMETER OF VERTICAL FORCE MAGNETOMETER.

DECEMBER, 1847.

Göttingen Mean Time.	12h 0	13h 0	14h 0	15h 0	16h 0	17h 0	18h 0	19h 0	20h 0	21h 0	22h 0	23h 0
1	80°6	80°5	80°4	79°0	78°5	76°9	79°9	80°9	82°0	83°0	83°4	84°0
2	81·7	81·0	80·7	79·6	79·0	79·5	80·5	81·5	82·5	83·0	84·0	84·2
3	81·0	80·6	80·0	79·4	79·0	79·5	80·5	81·5	82·8	83·5	84·0	84·5
4												
5	80·5	80·5	79·2	78·7	78·6	79·5	80·5	81·6	83·0	84·0	85·2	86·5
6	81·6	81·5	80·6	79·4	79·0	79·0	80·0	81·5	82·5	84·0	85·2	86·2
7	81·5	80·7	80·4	79·3	78·7	79·4	80·5	81·5	82·5	84·0	85·0	85·5
8	81·4	80·4	79·7	79·0	78·2	78·0	79·0	80·0	81·2	82·5	82·8	83·2
9	79·6	79·4	79·0	78·0	77·0	77·8	78·2	79·5	80·5	81·6	82·3	82·6
10	79·8	79·6	78·9	78·0	77·6	77·6	78·0	78·8	79·5	80·4	80·8	81·4
11												
12	77·0	77·0	76·7	75·0	74·4	75·5	76·8	77·5	78·8	79·8	80·5	81·3
13	79·5	79·5	78·3	77·2	76·8	77·0	78·2	79·5	81·0	81·4	82·0	82·6
14	79·1	79·0	78·3	76·5	76·3	76·8	77·5	78·5	79·4	80·5	81·4	82·4
15	79·5	78·3	77·0	76·6	76·0	76·5	77·0	78·0	79·0	79·7	80·2	80·6
16	77·3	77·5	76·7	75·0	74·6	75·0	75·8	76·5	77·8	79·6	80·3	80·8
17	76·7	76·5	75·5	74·7	74·4	74·8	76·2	77·5	78·5	79·6	81·0	82·0
18												
19	78·4	78·2	78·2	77·6	77·0	77·6	78·3	79·3	80·0	80·5	81·0	81·8
20	80·4	79·7	79·0	78·5	78·2	78·5	79·3	79·6	80·4	80·8	91·4	82·0
21	80·6	80·5	79·5	78·5	78·0	78·2	78·5	79·5	80·0	80·5	80·7	81·3
22	80·0	79·0	78·5	77·6	77·0	77·4	77·7	78·1	78·5	79·5	80·0	80·8
23	80·6	80·3	79·6	78·8	77·7	78·0	79·0	79·8	80·0	80·5	81·4	81·6
24	—	—	—	—	—	—	—	—	—	—	—	—
25												
26	78·0	77·8	77·0	76·2	76·0	76·5	77·5	78·0	79·5	81·0	81·6	82·5
27	79·5	79·2	78·8	77·6	77·2	77·8	79·0	80·0	80·9	81·4	81·8	82·5
28	80·9	80·7	79·2	78·0	77·6	78·0	79·4	80·3	82·0	82·8	83·4	83·6
29	80·2	79·6	79·5	78·0	77·8	78·5	79·6	80·8	81·8	83·5	84·0	84·0
30	80·0	79·5	79·3	78·6	79·0	78·5	79·9	81·5	82·5	83·8	84·6	85·3
31	81·5	81·5	80·8	79·2	78·7	79·5	81·0	82·0	82·5	83·4	84·0	84·0

BOMBAY MAGNETICAL OBSERVATIONS.

INDUCTION INCLINOMETER CORRECTED FOR DECLINATION.

JANUARY, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.										
	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	1°23'58	1°23'55	1°23'48	1°23'61	1°23'84	1°23'28	1°22'94	1°22'82	1°23'49	1°23'94	1°23'34	1°24'40
2												
3	1·23·88	1·22·30	1·22·46	1·22·55	1·22·55	1·23·14	1·22·60	1·22·78	1·22·93	1·22·17	1·23·06	1·22·83
4	1·22·28	1·22·08	1·22·09	1·22·19	1·22·40	1·23·07	1·23·22	1·21·67	1·22·82	1·21·89	1·22·74	1·22·50
5	1·22·23	1·22·24	1·22·50	1·22·07	1·22·05	1·22·17	1·22·22	1·22·15	1·22·53	1·22·40	1·22·48	1·22·57
6	1·22·32	1·22·26	1·22·53	1·22·36	1·22·40	1·22·27	1·21·83	1·22·03	1·22·46	1·22·92	1·22·77	1·23·49
7	1·23·12	1·22·53	1·23·08	1·22·70	1·22·12	1·22·10	1·21·20	1·21·23	1·22·88	1·23·43	1·22·91	1·22·89
8	1·23·08	1·22·69	1·22·74	1·22·40	1·22·70	1·22·45	1·22·55	1·22·24	1·22·87	1·21·98	1·21·43	1·22·33
9												
10	1·23·01	1·22·60	1·22·67	1·22·99	1·22·40	1·22·89	1·23·09	1·22·61	1·24·04	1·22·74	1·22·70	1·23·34
11	1·22·50	1·22·29	1·22·72	1·22·74	1·22·89	1·22·48	1·22·41	1·22·57	1·23·09	1·23·36	1·22·12	1·22·44
12	1·22·61	1·22·53	1·22·88	1·22·74	1·22·64	1·22·97	1·22·50	1·22·60	1·23·06	1·22·79	1·23·01	1·22·98
13	1·23·62	1·22·96	1·22·88	1·22·46	1·22·69	1·22·36	1·22·46	1·21·92	1·22·26	1·22·57	1·16·51	1·44·59
14	1·12·97	1·12·55	1·12·68	1·12·68	1·12·68	1·12·23	1·12·02	1·12·11	1·12·76	1·12·36	1·13·05	1·13·09
15	1·13·01	1·12·55	1·12·40	1·12·34	1·12·34	1·11·75	1·12·42	1·12·25	1·13·37	1·13·37	1·14·41	1·12·83
16												
17	1·12·30	1·11·82	1·11·54	1·11·47	1·11·59	1·11·73	1·10·77	1·10·57	1·13·33	1·12·85	1·11·96	1·11·39
18	1·11·25	1·10·50	1·10·87	1·11·01	1·10·94	1·11·93	1·11·62	1·11·75	1·11·97	1·11·22	1·12·04	1·12·13
19	1·12·42	1·10·91	1·11·78	1·11·48	1·11·94	1·11·63	1·11·58	1·11·18	1·12·25	1·11·41	1·12·92	1·12·66
20	1·12·08	1·11·41	1·11·51	1·12·44	1·11·48	1·11·87	1·11·62	1·11·44	1·12·49	1·12·04	1·12·28	1·12·54
21	1·12·46	1·11·86	1·11·54	1·12·28	1·12·14	1·12·04	1·12·06	1·12·06	1·12·95	1·12·15	1·12·44	1·13·26
22	1·12·97	1·12·44	1·12·26	1·12·22	1·12·14	1·12·16	1·11·85	1·11·80	1·11·80	1·12·18	1·12·81	1·12·69
23												
24	1·11·87	1·11·32	1·11·05	1·11·18	1·10·84	1·10 96	1·10·18	1·10·29	1·10·77	1·11·77	1·09·59	1·09·88
25	1·10·72	1·10·77	1·10·68	1·10·91	1·10·91	1·10·68	1·10·39	1·10·36	1·11·11	1·11·49	1·11·41	1·11·39
26	1·10·55	1·10·22	1·10·55	1·10·56	1·10·66	1·11·27	1·11·62	1·11·36	1·11·52	1·12·20	1·11·34	1·12·65
27	1·13·05	1·12·16	1·12·30	1·12·03	1·13·54	1·13·00	1·13·64	1·13·36	1·13·47	1·14·05	1·13·30	1·14·03
28	1·13·88	1·13·64	1·13·74	1·13·71	1·14·03	1·13·43	1·13·99	1·14·19	1·14·08	1·14·29	1·14·12	1·15·18
29	1·14·12	1·13·69	1·14·19	1·14·39	1·14·98	1·14·71	1·14·41	1·14·39	1·14·24	1·14·46	1·37·21	1·37·98
30												
31	1·39·70	1·38·60	1·38·50	1·38·91	1·39·41	1·41·52	1·39·23	1·38·86	1·38·19	1·38·50	1·38·50	1·38·73

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
FEBRUARY, 1847. 1	1°38'83	1°38'07	1°38'28	1°37'85	1°36'83	1°37'12	1°37'33	1°38'02	1°37'82	1°37'59	1°37'74	1°38'84
2	1·38·84	1·38·36	1·38·62	1·38·56	1·38·84	1·39·01	1·39·30	1·39·39	1·39·65	1·39·65	1·40·26	1·39·98
3	1·39·25	1·39·10	1·38·92	1·39·06	1·39·65	1·39·61	1·39·13	1·39·24	1·39·58	1·39·03	1·39·38	1·39·44
4	1·39·70	1·38·90	1·38·89	1·38·69	1·38·82	1·38·56	1·38·50	1·39·27	1·39·06	1·38·41	1·38·74	1·38·60
5	1·38·33	1·38·27	1·37·83	1·37·19	1·37·19	1·38·50	1·36·71	1·36·51	1·37·23	1·36·60	1·37·07	1·37·06
6												
7	1·36·92	1·36·69	1·37·00	1·36·61	1·36·92	1·36·17	1·36·56	1·36·78	1·37·01	1·36·44	1·36·35	1·37·22
8	1·36·79	1·36·81	1·36·88	1·37·26	1·37·12	1·37·45	1·37·57	1·37·52	1·38·07	1·38·77	1·37·95	1·38·34
9	1·37·38	1·38·00	1·37·55	1·37·26	1·37·53	1·37·46	1·36·81	1·37·12	1·37·83	1·37·68	1·37·31	1·38·18
10	1·37·69	1·37·00	1·37·20	1·36·90	1·37·18	1·36·92	1·36·92	1·36·85	1·37·36	1·37·78	1·37·24	1·37·30
11	1·37·05	1·36·64	1·36·87	1·36·77	1·37·28	1·37·71	1·36·12	1·37·06	1·37·40	1·37·50	1·38·21	1·38·46
12	1·38·27	1·38·67	1·39·23	1·39·30	1·39·70	1·39·20	1·39·29	1·39·08	1·39·47	1·39·68	1·39·44	1·40·04
13												
14	1·40·38	1·39·67	1·40·60	1·41·42	1·41·42	1·41·21	1·40·94	1·40·79	1·41·14	1·41·33	1·41·08	1·41·56
15	—	1·41·16	1·41·30	1·42·04	1·42·23	1·41·39	1·41·49	1·42·00	1·43·53	1·43·12	1·42·14	1·42·43
16	1·41·98	1·42·28	1·42·35	1·42·14	1·42·00	1·41·98	1·42·09	1·42·26	1·43·24	1·42·72	1·41·09	1·42·08
17	1·41·90	1·41·02	1·41·78	1·41·52	1·41·26	1·42·35	1·41·09	1·41·11	1·42·57	1·41·29	1·41·83	1·41·59
18	1·41·83	1·41·35	1·41·25	1·41·08	1·41·04	1·41·12	1·41·62	1·41·57	*1·44·02	1·43·60	1·44·01	1·44·37
19	1·44·68	1·44·23	1·44·48	1·43·92	1·43·92	1·44·04	1·43·82	1·44·30	1·44·82	1·43·86	1·43·58	1·44·21
20												
21	1·43·58	1·43·31	1·43·38	1·42·89	1·43·18	1·43·37	1·42·87	1·42·72	1·43·53	1·42·89	1·43·67	1·43·92
22	1·43·77	1·43·84	1·43·75	1·43·34	1·43·20	1·43·20	1·43·82	1·43·67	1·44·51	1·43·39	1·43·64	1·43·58
23	1·43·49	1·43·23	1·43·37	1·42·91	1·42·93	1·42·87	1·43·03	1·43·44	1·43·82	1·43·75	1·42·99	1·43·34
24	1·44·11	1·43·61	*1·44·23	1·44·42	1·43·61	1·43·78	1·43·95	1·44·13	1·44·41	1·43·34	1·43·27	1·43·61
25	1·43·63	1·43·67	1·43·44	1·43·24	1·43·41	1·43·22	1·42·29	1·42·91	1·42·34	1·43·20	1·42·86	1·43·41
26	1·43·55	1·43·35	1·43·49	1·43·17	1·42·59	1·42·87	1·42·46	1·43·17	1·43·31	1·42·21	1·42·24	1·42·62
27												
28	1·43·41	1·42·87	1·42·80	1·42·73	1·42·96	1·42·87	1·43·00	1·42·72	1·43·81	1·44·04	1·42·27	1·42·38

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
MARCH, 1847. 1	1°42'74	1°42'29	1°43'22	1°43'15	1°43'48	1°43'65	1°43'01	1°43'27	1°43'72	1°42'93	1°42'38	1°42'56
2	1·42·94	1·43·00	1·42·86	1·42·58	1·42·89	1·42·94	1·42·74	1·43·05	1·43·84	1·44·15	1·43·13	1·42·82
3	1·42·98	1·42·58	1·42·87	1·42·67	1·42·91	1·43·47	1·43·27	1·43·54	1·44·23	1·44·64	1·43·58	1·43·23
4	1·43·53	1·43·32	1·43·52	1·43·49	1·43·60	1·43·87	1·43·46	1·43·46	1·44·57	1·44·18	1·44·59	1·43·73
5	1·43·65	1·43·66	1·43·72	1·44·08	1·43·82	1·43·61	1·43·61	1·43·95	1·44·26	1·44·30	1·43·91	1·44·39
6												
7	1·44·54	1·43·82	1·44·09	1·44·36	1·44·23	1·43·84	1·43·87	1·43·82	1·44·13	1·44·70	1·43·46	1·43·49
8	1·43·90	1·43·75	1·45·37	1·45·02	1·45·15	1·44·68	1·44·85	1·44·27	1·44·99	1·44·78	1·44·61	1·44·70
9	1·44·71	1·44·78	1·44·72	1·44·37	1·44·44	1·44·59	1·44·03	1·44·13	1·45·04	1·44·01	1·44·22	1·43·98
10	1·44·38	1·44·10	1·44·34	1·44·30	1·44·92	1·44·49	1·44·47	1·44·44	1·44·85	1·45·33	1·44·29	1·44·35
11	1·44·82	1·44·37	1·44·80	1·44·23	1·44·71	1·44·63	1·44·20	1·44·20	1·44·87	1·45·26	1·44·10	1·44·22
12	1·44·10	1·43·93	1·44·08	1·43·89	1·43·96	1·43·67	1·43·78	1·43·75	1·44·42	1·44·70	1·44·22	1·44·16
13												
14	1·44·87	1·44·90	1·45·37	1·45·14	1·44·78	1·44·96	1·44·88	1·44·81	1·45·75	1·45·96	1·45·39	1·46·07
15	1·46·63	1·46·27	1·46·21	1·46·26	1·46·02	1·46·02	1·45·99	1·46·19	1·47·14	1·47·50	1·46·89	1·46·75
16	1·46·69	1·46·55	1·46·82	1·47·13	1·47·19	1·46·74	1·46·48	1·46·70	1·47·48	1·47·45	1·46·43	1·46·29
17	1·46·04	1·45·37	1·45·68	1·45·14	1·45·18	1·45·18	1·44·80	1·44·71	1·45·05	1·45·23	1·44·63	1·44·42
18	1·44·54	1·44·68	1·44·75	1·44·37	1·44·24	1·44·38	1·44·48	1·44·48	1·44·92	1·44·98	1·44·96	1·44·63
19	1·44·33	1·44·39	1·44·95	1·44·92	1·45·54	1·44·74	1·44·80	1·45·70	1·45·23	1·45·20	1·44·56	1·44·41
20												
21	1·45·57	1·45·85	1·45·00	1·45·20	1·45·13	1·45·35	1·45·66	1·46·26	1·46·21	1·46·02	1·45·06	1·45·08
22	1·45·71	1·45·25	1·45·23	1·44·80	1·45·08	1·44·79	1·44·78	1·45·15	1·46·24	1·45·89	1·44·65	1·44·87
23	1·45·35	1·44·24	1·44·30	1·44·23	1·44·57	1·44·45	1·44·46	1·44·50	1·45·00	1·44·99	1·43·67	1·44·11
24	1·44·28	1·44·58	1·44·35	1·44·23	1·43·94	1·43·90	1·43·70	1·43·58	1·44·92	1·44·68	1·44·70	1·43·82
25	1·44·41	1·44·09	1·44·78	1·44·13	1·44·21	1·44·73	1·44·83	1·44·78	1·45·35	1·45·44	1·44·01	1·44·61
26	1·44·98	1·44·99	1·45·06	1·44·57	1·45·10	1·44·59	1·44·37	1·44·76	1·45·13	1·44·95	1·44·55	1·44·43
27												
28	1·45·31	1·45·38	1·45·25	1·45·18	1·45·66	1·45·69	1·45·42	1·45·52	1·45·85	1·45·59	1·45·45	1·46·38
29	1·46·83	1·46·50	1·46·25	1·46·41	1·47·13	1·46·81	1·46·50	1·46·60	1·46·97	1·45·80	1·45·92	1·46·09
30	1·46·68	1·46·38	1·46·52	1·45·91	1·46·07	1·45·59	1·45·88	1·46·41	1·46·71	1·45·84	1·44·77	1·44·99
31	1·45·25	1·45·20	1·45·33	1·45·39	1·45·76	1·45·19	1·45·25	1·45·71	1·46·07	1·45·98	1·45·04	1·45·02

* A sudden change at 10h.

APRIL, 1847.

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1	1°45'66	1°45'75	1°46'48	1°45'40	1°45'64	1°45'37	1°45'44	1°45'87	1°46'61	1°46'07	1°45'59	1°45'45
2	1·46·47	1·46·34	1·46·21	1·46·14	1·45·88	1·46·07	1·46·48	1·46·88	1·47·14	1·47·55	1·46·03	1·45·88
3												
4	1·46·93	1·46·62	1·46·74	1·46·22	1·46·07	1·45·80	1·45·98	1·46·67	1·48·74	1·47·21	1·46·45	1·46·25
5	1·46·33	1·46·81	1·47·42	1·47·34	1·47·25	1·46·67	1·46·48	1·46 75	1·47·62	1·47·21	1·46·26	1·45·26
6	1·47·07	1·46·76	1·46·86	1·47·00	1·47·20	1· ·6·53	1·45·90	1·47·03	1·47·44	1·47·27	1·46·48	1·46·45
7	1·47·51	1·47·29	1·47·43	1·47·37	1·46·90	1·46·78	1·46·71	1·46·55	1·47·05	1·47·36	1·46·70	1·47·74
8	1·46·98	1·46·83	1·47·29	1·47·22	1·46·45	1·46·81	1·46·00	1·46·67	1·47·32	1·47·31	1·46·34	1·46·19
9	1·46·50	1·46·89	1·46·96	1·46·79	1·46·45	1·46.22	1·45·92	1·46·43	1·47·14	1·46·94	1·46·58	1·46·36
10												
11	1·46·55	1·46·55	1·46·55	1·46·12	1·46·72	1·46·19	1·46·48	1·47·18	1·47·25	1·46·09	1·45·52	1·46·93
12	1·46·47	1·46·34	1·46·41	1·46·45	1·46·11	1·46·00	1·46·54	1·46·55	1·46·59	1·44·56	1·45·28	1·45·29
13	1·45·90	1·46·26	1·46·55	1·45·84	1·46·11	1·46·21	1·45·91	1·47·12	1·47·19	1·46·16	1·45·86	1·45·57
14	1·45·82	1·46·20	1·46·84	1·45·97	1·46·42	1·46·91	1·46·36	1·46·30	1·46·98	1·46·76	1·44·87	1·45·03
15	1·45·38	1·45·91	1·45·81	1·46·00	1·46·07	1·45·71	1·45·57	1·45·74	1·46·82	1·45·38	1·44·90	1·44·87
16	1·45·28	1·45·42	1·44·96	1·45·11	1·46·07	1·45·35	1·45·44	1·45·67	1·46·69	1·46·16	1·45·26	1·45·92
17												
18	1·47·72	1·47·98	1·48·41	1·48·57	1·48·57	1·48·40	1·48·49	1·48·73	1·48·76	1·48·20	1·48·73	1·48·18
19	1·49·37	1·48·48	1·48·27	1·48·27	1·48·11	1·48·03	1·47·82	1·47·94	1·47·91	1·46·55	1·46·73	1·47·95
20	1·47·94	1·47·76	1·47·36	1·47·27	1·46·84	1·47·12	1·46·64	1·46·14	1·46·45	1·45·61	1·45·67	1·45·86
21	1·46·16	1·47·75	1·47·24	1·46·76	1·46·97	1·46·96	1·46·55	1·46·77	1·47·14	1·46·17	1·45·96	1·46·47
22	1·46·55	1·46·54	1·46·64	1·45·84	1·46·22	1·46·15	1·46·29	1·46·63	1·46·12	1·45·62	1·44·85	1·45·55
23	1·46·13	1·46·22	1·45·81	1·45·73	1·46·76	1·46·26	1·45·87	1·46·45	1·46·79	1·46·36	1·45·92	1·46·15
24												
25	1·46·45	1·46·60	1·46·75	1·46·43	1·45·95	1·46·10	1·45·95	1·46·62	1·46·22	1·46·07	1·45·50	1·45·86
26	1·45·97	1·46·82	1·46·35	1·46·58	1·46 89	1·46·74	1·46·86	1·47·10	1·47·26	1·47·20	1·46·21	1·47·08
27	1·46·95	1·47·05	1·47·26	1·47·17	1·47·51	1·47·20	1·47·02	1·47·31	1·47·65	1·46·60	1·46·52	1·46·78
28	1·46·96	1·46·54	1·46·93	1·46·83	1·46·60	1·46·43	1·46·62	1·47·10	1·46·71	1·46·14	1·45·86	1·46·55
29	1·46·36	1·46·28	1·46·76	1·46·76	1·47·05	1·46·45	1·46·76	1·47·07	1·47·10	1·46·29	1·46·41	1·46·83
30	1·47·10	1·47·10	1·46·57	1·47·24	1·47·14	1·46·89	1·46·55	1·46·89	1·47·58	1·46·83	1·46·93	1·46·87

MAY, 1847.

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	Noon.	2h. 0	4h. 0	6h. 0	8h. 0	10h. 0	12h. 0	14h. 0	16h. 0	18h. 0	20h. 0	22h. 0
1												
2	1°46'29	1°47'15	1°46'83	1°46'96	1°47'17	1°47'08	1°47'08	1°46'95	1°48'15	1°47'19	1°45'60	1°46'69
3	1·47·17	1·47·36	1·46·83	1·47·10	1·47·01	1·46·77	1·46·57	1·47·27	1·47·94	1·47·03	1·46·75	1·46·60
4	1·46·69	1·47·11	1·47·05	1·46·89	1·47·37	1·46·71	1·46·23	1·46·43	1·47·53	1·47·03	1·45·99	1·46·21
5	1·46·54	1·46·79	1·46·48	1·46·74	1·46·24	1·46·45	1·46·19	1·47·14	1·47·24	1·47·06	1·45.86	1·46·38
6	1·46·41	1·46.89	1·46·64	1·46·79	1·46·83	1·46·64	1·46.67	1·46·84	1·47·86	1·46·96	1·46·24	1·46·20
7	1·46·74	1·46·62	1·46·38	1·47·06	1·47.17	1·46·55	1·46·58	1·47·05	1·46· 96	1·45.86	1·45·92	1·47·21
8	1·46·99	1·47·07	1·47·00	1·46·31	1·46·72	1·46·28	1·46·14	1·46·90	1·47·03	1·46·02	1·45·72	1·46·14
9												
10	1·46·94	1·47·02	1·46·72	1·47·02	1·47·29	1·46·86	1·46·84	1·47·03	1·47·65	1·46·72	1·46·07	1·46·45
11	1·46·74	1·46·65	1·46·98	1·46·76	1·46·83	1·46·77	1·46·91	1·47·49	1·47·67	1·47·27	1·46·64	1·46·88
12	1·47·28	1·47·51	1·46·83	1·47·13	1·47·37	1·47·03	1·46·96	1·47·68	1·47·88	1·46·69	1·47·61	1·48·00
13	1·48·27	1·47·90	1·48·13	1·47·99	1·48·20	1·47·70	1·48·01	1·48·31	1·48·22	1·47·72	1·47·50	1·47·58
14	1·47·65	1·47·99	1·47·79	1·47·98	1·47·41	1·47·42	1·47·54	1·47·60	1·47·86	1·46·92	1·46·60	1·46·88
15	1·47·17	1·47·12	1·47·70	1·48·20	1·47·32	1·47·10	1·47·20	1·47·89	1·47·94	1·47·03	1·47·91	1·47·77
16	1·48·06	1·48·13	1·47·51	1·47·75	1·47·89	1·47·73	1·47·32	1·48·12	1·48·23	1·47·89	1·47·26	1·47·48
17												
18	1·47·00	1·47·02	1·46·70	1·47·17	1·47·17	1·46·86	1·46·85	1·47·31	1·47·25	1·46·48	1·45·40	1·46·06
19	1·46·71	1·46·50	1·46·69	1·46·57	1·47·03	1·46·45	1·46·33	1·47·24	1·47·17	1·46·07	1·45·86	1·46·00
20	1·46·43	1·46·96	1·46·69	1·47·00	1·47·26	1·47·63	1·47·60	1·48·06*	1·48·68	1·48·20	2·16·01	2·15·80
21	2·15·77	2·15·91	2·15·72	2·15·57	2·15·91	2·15·87	2·15·49	2·15·88	2·15·67	2·15·60	2·15·88	2·15·89
22												
23	2·15·82	2·15·84	2·15·65	2·15·57	2·15·91	2·15·74	2·15·77	2·15·77	2·15·64	2·15·70	2·15·82	2·15·50
24	2·15·78	2·15·70	2·15·73	2·15·20	2·15·91	2·15·46	2·15·57	2·15·71	2·15·55	2·15·56	2·15·69	2·15·60
25	2·15·51	2·15·91	2·15·86	2·15·44	3·15·22	2·15·67	2·15·58	2·15·58	2·15·79	2·16·11	2·15·96	2·15·73
26	2·15·38	2·15·55	2·15·38	2·15·53	2·15·41	2·15·17	2·15·43	2·15·36	2·15·96	2·15·80	2·15·69	2·15·55
27	2·15·28	2·15·30	2·15·40	2·15·03	2·14·95	2·15·21	2·15·17	2·15·24	2·15·55	2·15·32	2·14·90	2·15·34
28	2·15·10	2·15·58	2·15·22	2·15·05	2·15·43	2·15·12	2·14·98	2·15·33	2·15·44	2·16·66	2·15·31	2·15·31
29												
30	2·15·46	2·15·70	2·15·15	2·15·50	2·15·22	2·15·26	2·15·26	2·14·69	2·15·24	2·14·71	2·15·20	2·14·79
31	2·15·08	2·15·46	2·15·10	2·14·88	2·15·22	2·14·67	2·15·00	2·15·09	2·15·37	2·14·95	2·15·00	2·14·97

* Instrument was opened and a cobweb found in it, cleared and the instrument set free.

JUNE, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.											
	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	2°15'29	2°15'09	2°15'10	2°15'49	2°15'03	2°15'57	2°14'88	2°14'89	2°15'20	2°14'92	2°15'26	2°14'76
2	2·16·28	2·15·59	2·15·59	2·16·46	2·16·32	2·16·35	2·16·39	2·16·69	2·16·52	2·16·16	2·16·12	2·16·29
3	2·16·08	2·15·93	2·16·22	2·16·25	2·16·15	2·16·32	2·12·32	2·16·25	2·16·25	2·15·97	2·15·98	2·15·73
4	2·17·30	2·17·22	2·17·08	2·17·30	2·17·42	2·17·75	2·17·58	2·17·75	2·17·49	2·17·14	2·17·20	2·17·09
5												
6	2·17·41	2·17·47	2·17·47	2·17·34	2·17·20	2·17·41	2·17·30	2·17·61	2·17·46	2·17·01	2·17·15	2·17·15
7	2·16·04	2·17·01	2·17·06	2·16·99	2·17·18	2·17·32	2·17·33	2·17·15	2·16·39	2·16·84	2·16·68	2·16·60
8	2·16·87	2·16·74	2·16·79	2·16·86	2·17·06	2·17·34	2·16·74	2·16·35	2·16·49	2·16·80	2·16·58	2·16·57
9	2·16·39	2·16·66	2·16·46	2·16·41	2·16·48	2·16·08	2·16·36	2·16·26	2·16·25	2·16·46	2·16·37	2·16·48
10	2·16·39	2·16·36	2·16·86	2·16·46	2·16·46	2·17·01	2·17·01	2·16·53	2·16·90	2·16·43	2·16·15	2·16·15
11	2·16·46	2·16·73	2·16·73	2·16·35	2·16·59	2·16·66	2·16·56	2·16·83	2·16·90	2·16·42	2·16·43	2·15·93
12												
13	2·16·04	2·16·04	2·16·18	2·16·32	2·16·29	2·16·25	2·15·92	2·16·29	2·16·51	2·16·15	2·15·92	2·15·79
14	2·15·98	2·15·93	2·16·18	2·15·89	2·16·03	2·15·86	2·15·86	2·15·74	2·16·18	2·15·97	2·15·79	2·15·85
15	2·16·58	2·16·58	2·16·51	2·16·32	2·16·26	2·16·12	2·16·08	2·16·94	2·17·06	2·16·06	2·16·27	2·16·28
16	2·16·87	2·16·68	2·16·69	2·16·67	2·16·60	2·17·76	2·16·83	2·16·66	2·17·01	2·16·62	2·16·92	2·16·87
17	2·18·42	2·18·47	2·18·38	2·18·47	2·18·33	2·17·90	2·18·09	2·18·44	2·18·44	2·18·28	2·18·13	2·18·37
18	2·18·11	2·18·02	2·18·17	2·17·90	2·18·26	2·17·75	2·18·02	2·18·40	2·18·09	2·18·26	2·18·30	2·18·15
19												
20	2·18·31	2·18·44	2·18·23	2·18·11	2·18·40	2·17·99	2·18·18	2·18·44	2·18·44	2·18·40	2·18·45	2·18·37
21	1·47·55	1·47·72	1·47·76	1·47·66	1·47·88	1·47·24	1·47·27	1·47·92	1·47·79	1·47·32	1·47·17	1·47·79
22	1·47·72	1·47·72	1·47·73	1·47·85	1·47·51	1·47·58	1·47·92	1·47·92	1·47·98	1·47·44	1·47·80	1·47·72
23	1·47·94	1·48·33	1·48·27	1·48·08	1·48·36	1·47·99	1·47·92	1·47·99	1·47·92	1·48·21	1·48·11	1·48·09
24	1·47·89	1·48·20	1·47·99	1·48·22	1·48·15	1·48·08	1·47·58	1·47·72	1·47·58	1·47·71	1·47·71	1·47·71
25	1·46·80	1·46·88	1·46·48	1·46·81	1·46·79	1·46·50	1·46·46	1·46·39	1·46·31	1·46·43	1·46·58	1·46·15
26												
27	1·47·08	1·47·62	1·46·83	1·47·30	1·47·30	1·47·15	1·47·29	1·47·27	1·47·01	1·46·70	1·47·25	1·46·70
28	1·46·80	1·46·57	1·46·79	1·46·88	1·46·89	1·47·13	1·46·98	1·46·86	1·46·57	1·46·62	1·46·55	1·46·43
29	1·46·67	1·46·48	1·46·43	1·46·81	1·46·60	1·46·64	1·47·06	1·46·98	1·46·29	1·46·45	1·46·70	1·46·50
30	1·46·83	1·46·67	1·46·70	1·46·67	1·46·31	1·46·82	1·46·29	1·46·29	1·46·17	1·46·41	1·46·48	1·46·34

JULY, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.											
	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	1°46'41	1°46'14	1°46'55	1°46'50	1°46'58	1°46'69	1°46'72	1°46'29	1°46'05	1°46'29	1°46'49	1°46'62
2	1·46·62	1·46·50	1·46·40	1·46·89	1·46·64	1·46·34	1·46·36	1·46·50	1·46·65	1·46·43	1·46·43	1·46·29
3												
4	1·46·42	1·46·31	1·46·43	1·46·38	1·46·58	1·46·52	1·46·39	1·46·43	1·46·29	1·46·53	1·46·41	1·46·41
5	1·46·75	1·46·29	1·46·50	1·46·67	1·46·75	1·46·39	1·46·75	1·46·60	1·46·52	1·46·25	1·46·72	1·46·43
6	1·46·64	1·46·72	1·46·89	1·46·69	1·46·75	1·46·92	1·47·13	1·47·44	1·47·08	1·46·72	1·46·60	1·46·67
7	1·47·03	1·46·56	1·46·64	1·46·89	1·46·87	1·46·48	1·46·60	1·47·29	1·46·76	1·46·91	1·46·83	1·46·83
8	1·46·71	1·47·22	1·47·10	1·47·03	1·46·86	1·47·17	1·47·01	1·46·78	1·46·48	1·46·55	1·46·67	1·46·70
9	1·46·68	1·46·74	1·46·78	1·46·96	1·46·89	1·47·00	1·46·82	1·46·76	1·46·83	1·46·43	1·46·84	1·47·05
10												
11	1·46·91	1·46·89	1·47·00	1·46·93	1·46·66	1·46·70	1·46·79	1·46·74	1·46·70	1·46·76	1·47·08	1·47·08
12	1·46·89	1·46·91	1·46·95	1·47·07	1·47·07	1·47·20	1·47·17	1·46·91	1·46·94	1·47·17	1·47·15	1·47·29
13	1·46·84	1·47·03	1·47·22	1·46·89	1·47·17	1·47·44	1·47·32	1·46·83	1·47·51	1·47·30	1·47·36	1·47·00
14	1·47·51	1·46·91	1·47·12	1·47·24	1·47·24	1·47·44	1·47·51	1·47·44	1·47·02	1·47·06	1·47·10	1·46·98
15	1·47·15	1·47·12	1·47·34	1·47·56	1·47·29	1·47·78	1·47·19	1·47·12	1·47·55	1·46·98	1·47·08	1·47·48
16	1·46·96	1·47·23	1·47·17	1·47·37	1·47·10	1·47·30	1·47·44	1·47·18	1·47·03	1·46·98	1·46·98	1·47·12
17												
18	1·46·93	1·46·91	1·46·99	1·47·10	1·47·75	1·47·20	1·47·15	1·46·72	1·46·76	1·46·91	1·46·59	1·46·72
19	1·46·67	1·46·89	1·47·05	1·46·91	1·47·34	1·47·48	1·47·41	1·47·40	1·47·00	1·46·85	1·46·63	1·46·95
20	1·46·88	1·46·96	1·47·03	1·47·08	1·47·03	1·47·24	1·47·44	1·47·15	1·47·13	1·46·70	1·46·70	1·46·84
21	1·47·10	1·47·03	1·46·91	1·46·98	1·47·09	1·47·41	1·47·27	1·47·44	1·47·44	1·47·22	1·47·00	1·47·00
22	1·47·00	1·46·89	1·47·13	1·47·05	1·47·20	1·46·89	1·47·85	1·47·17	1·47·15	1·46·91	1·47·12	1·47·13
23	1·47·39	1·47·29	1·47·41	1·47·30	1·47·10	1·47·10	1·47·12	1·47·30	1·47·32	1·47·07	1·47·20	1·47·15
24												
25	1·46·98	1·47·06	1·47·29	1·47·06	1·46·86	1·47·32	1·47·22	1·47·36	1·47·36	1·46·63	1·47·13	1·47·41
26	1·47·32	1·47·12	1·47·12	1·47·22	1·47·20	1·47·17	1·47·37	1·47·34	1·46·98	1·47·07	1·47·25	1·47·10
27	1·46·91	1·47·12	1·46·84	1·47·14	1·47·29	1·47·44	1·47·44	1·47·35	1·47·29	1·47·13	1·47·13	1·47·00
28	1·47·37	1·47·16	1·47·31	1·47·40	1·47·37	1·47·22	1·47·37	1·47·23	1·47·54	1·47·06	1·46·99	1·46·98
29	1·47·01	1·46·98	1·46·91	1·47·15	1·47·23	1·47·85	1·47·10	1·47·39	1·47·20	1·46·91	1·47·12	1·47·12
30	1·46·45	1·46·34	1·46·02	1·46·15	1·46·21	1·46·21	1·46·14	1·46·14	1·46·31	1·46·17	1·46·48	1·46·65
31												

JUNE, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.											
	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	2°14'96	2°15'36	2°15'29	2°14'92	2°15'21	2°14'87	2°15'26	2°14'83	2°16'38	2°15'79	2°16'01	2°16'18
2	2·15·86	2·15·98	2·16·05	2·16·01	2·15·98	2·16·19	2·16·25	2·15·80	2·15·71	2·16·02	2·16·06	2·15·99
3	2·15·87	2·16·08	2·16·08	1·16·24	2·15·95	2·15·68	2·15·72	2·17·25	2·17·47	2·17·18	2·17·16	2·17·27
4	2·16·98	2·17·53	2·17·46	2·17·15	2·17·16	2·17·40	2·17·49	2·16·72	2·17·47	2·16·95	2·17·49	2·17·25
5												
6	2·17·01	2·17·31	2·16·90	2·16·96	2·17·34	2·17·02	2·17·26	2·17·03	2·17·04	2·16·80	2·16·78	2·15·78
7	2·16·59	2·17·37	2·17·11	2·16·91	2·16·65	2·16·60	2·16·87	2·16·49	2·16·98	2·15·17	2·16·60	2·16·80
8	2·16·72	2·16·49	2·16·86	2·16·40	2·16·39	2·16·60	2·16·72	2·16·34	2·16·70	2·16·34	2·16·46	2·15·58
9	2·16·34	2·16·13	2·16·44	2·16·13	2·16·72	2·16·87	2·16·26	2·16·78	2·16·75	2·16·22	2 16·25	2·16·37
10	2·16·29	2·16·08	2·16·51	2·16·27	2·16·64	2·16·60	2·16·25	2·16·44	2·16·44	2·16·55	2·16·30	2·16·37
11	2·16·46	2·16·88	2·17·07	2·16·29	2·16·70	2·17·09	2·17·08	2·15·62	2·16·10	2·15·06	2·17·14	2·16·54
12												
13	2·16·08	2·16·11	2·16·05	2·15·98	2·16·60	2·16·00	2·16·13	2·15·98	2·16·23	2·15·82	2·15·86	2·16·03
14	2·16·11	2·16·33	2·16·43	2·16·40	2·16·50	2·16·51	2·16·58	2·15·94	2·16·38	2·15·89	2·16·29	2·16·08
15	2·16·34	2·16·32	2·16·39	2·16·34	2·16·65	2·16·54	2·16·26	2·16·46	2·16·44	2·16·49	2·16·66	2·16·69
16	2·16·51	2·16·75	2·16·74	2·16·48	2·16·61	2·16·85	2·16·83	2·16·03	2·16·54	2·16·82	2·16·61	2·18·33
17	2·18·46	2·18·04	2·18·24	2·18·33	2·18·28	2·18·35	2·18·27	2·17·90	2·17·98	2·18·14	2·18·24	2·17·81
18	2·18·28	2·18·40	2·18·31	2·18·31	2·18·27	2·18·49	2·18·42	2·18·22	2·17·88	2·18·17	2·18·29	2·18·24
19												
20	2·18·44	2·18·57	2·18·52	2·18·79	2·18·66	2·19·58	2·19·63	*1·47·50	1·46·95	1·47·17	1·47·36	1·47·31
21	1·47·51	1·47·51	1·47·99	1·47·78	1·47·52	1·47·24	1·47·53	1·47·70	1·47·90	1·47·49	1·47·70	1·47·70
22	1·47·77	1·47·53	1·48·15	1·47·82	1·48·10	1·48·22	1·48·00	1·48·32	1·48·05	1·48·09	1·48·06	1·48·32
23	1·48·35	1·48·35	1·48·37	1·48·16	1·48·23	1·48·20	1·48·18	1·47·65	1·47·51	1·47·86	1·48·29	1·47·89
24	1·47·73	1·48·09	1·47·62	1·46·85	1·45·73	1·45·62	1·46·95	1·46·48	1·46·81	1·46·44	1·46·83	1·46·88
25	1·46·62	1·46·74	1·46·76	1·46·76	1·47·22	1·46·48	1·46·89	1·47·12	1·46·76	1·46·67	1·46·93	1·46·87
26												
27	1·46·64	1·47·13	—	1·47·17	1·46·71	1·46·41	1·46·35	1·46·28	1·46·50	1·46·31	1·46·50	1·45·62
28	1·46·56	1·46·62	1·46·76	1·46·54	1·46·69	1·46·48	1·46·48	1·45·80	1·46·14	1·46·48	1·46·36	1·46·35
29	1·46·69	1·46·36	1·46·33	1·46·64	1·46·40	1·46·36	1·46·35	1·46·52	1·46·60	1·46·44	1·46·62	1·46·28
30	1·46·54	1·46·72	1·46·55	1·46·57	1·46·38	1·46·31	1·46·26	1·45·63	1·46·20	1·46·46	1·46·14	1·46·35

JULY, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.											
	12h. 0	13h. 0	14h. 0	15h. 0	16h. 0	17h. 0	18h. 0	19h. 0	20h. 0	21h. 0	22h. 0	23h. 0
1	1°46'41	1°46'88	1°46'45	1°47'05	1°46'44	1°46'59	1°46'60	1°46'53	1°46'07	1°46'53	1°46'66	1°46'57
2	1·46·27	1·46·54	1·46·72	1·46·69	1·46·57	1·46·52	1·46·63	1·46·30	1·46·33	1·46·52	1·46·19	1·46·34
3												
4	1·46·70	1·46·67	1·46·55	1·46·17	1·46·42	1·46·55	1·46·17	1·46·85	1·46·23	1·46·36	1·46·39	1·46·14
5	1·46·46	1·46,62	1·46·36	1·46·69	1,46·69	1·46·24	1·46·24	1·46·88	1·46·85	1·46·52	1·46·55	1·46·48
6	1·46·70	1·46·89	1·46·84	1·46·43	1·46·77	1·46·91	1·46·74	1·46·62	1·46·85	1·46·98	1·45·93	1·47·34
7	1·46·88	1·47·15	1·46·90	1·46·77	1·47·02	1·47·24	1·46·89	1·46·78	1·46·71	1·46·79	1·46·55	1·46·67
8	1·46·91	1·46·89	1·46·84	1·46·83	1·46·72	1·46·80	1·46·72	1·46·63	1·47·10	1·46·75	1·46·79	1·46·75
9	1·46·84	1·46·83	1·47·93	1·46·91	1·46·70	1·47·30	1·46·89	1·46·09	1·47·05	1·46·62	1·46·96	1·46·78
10												
11	1·46·95	1·47·21	1·47·37	1·47·10	1·47·37	1·47·12	1·47·14	1·46·96	1·46·67	1·46·78	1·46·87	1·46·89
12	1·47·08	1·47·19	1·47·21	1·46·98	1·47·05	1·47·14	1·46·62	1·46·95	1·47·36	1·46·43	1·46·72	1·46·96
13	1·46·86	1·47·44	1·46·96	1·47·27	1·47·24	1·47·22	1·47·22	1·47·03	1·46·73	1·46·84	1·46·99	1·47·10
14	1·47·15	1·46·96	1·47·45	1·47·17	1·47·37	1·47·78	1·47·26	1·47·05	1·47·14	1·47·06	1·47·03	1·47·12
15	1·47·37	1·47·47	1·47·51	1·47·39	1·47·15	1·47·46	1·47·17	1·47·10	1·46·36	1·46·67	1·47·00	1·46·96
16	1·47·12	1·47·24	1·46·98	1·47·10	1·47·10	1·47·22	1·46·84	1·46·91	1·47·15	1·46·88	1·46·92	1·46·85
17												
18	1·46·88	1·47·17	1·46·77	1·46·84	1·47·30	1·46·94	1·47·16	1·46·83	1·46·71	1·46·79	1·46·86	1·46·48
19	1·46·84	1·47·31	1·47·16	1·47·11	1·47·08	1·47·02	1·46·24	1·46·76	1·46·58	1·46·72	1·46·91	1·47·00
20	1·46·84	1·47·08	1·46·83	1·47·31	1·47·31	1·47·30	1·46·77	1·47·10	1·46·67	1·46·74	1·46·83	1·46·77
21	1·47·13	1·47·31	1·47·16	1·46·81	1·47·17	1·46·96	1·47·22	1·46·62	1·46·55	1·47·00	1·47·06	1·47·08
22	1·46·82	1·47·08	1·47·51	1·47·31	1·47·29	1·47·24	1·46·78	1·47·15	1·46·88	1·46·93	1·46·95	1·47·05
23	1·47·19	1·47·25	1·47·17	1·47·51	1·47·20	1·46·86	1·47·44	1·46·86	1·46·93	1·46·73	1·46·98	1·46·80
24												
25	1·47·39	1·47·58	1·47·41	1·47·67	1·47·31	1·47·37	1·47·49	1·47·24	1·47·29	1·47·18	1·47·01	1·47·10
26	1·47·15	1·47·58	1·47·27	1·47·27	1·47·37	1·47·44	1·47·35	1·47·29	1·47·39	1·47·19	1·47·14	1·47·06
27	1·46·77	1·47·03	1·46·83	1·46·98	1·47·37	1·46·91	1·46·83	1·46·98	1·47·05	1·46·96	1·47·12	1·46·98
28	1·47·05	1·47·17	1·47·12	1·47·17	1·46·97	1·47·27	1·47·02	1·47·29	1·46·98	1·47·06	1·46·78	1 46·96
29	1·46·89	1·47·30	1·47·27	1·47·01	1·46·98	1·47·12	1·45·45	1·46·00	1·45·73	1·45·74	1·45·52	1·46·00
30	1·46·69	1·46·31	1·46·36	1·46·22	1·46·48	1·46·75	1·46·21	1·46·81	1·46·00	1·46·59	1·46·46	1·46·65
31												

* Magnet disturbed by a cobweb; Magnet was freed of the spider and its web, but the reading never returned.

AUGUST, 1847.

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	1°46'60	1°46'66	1°46'72	1°46'66	1°46'81	1°47'08	1°47'08	1°47'00	1°46'88	1°46'77	1°46'89	1°47'05
2	1·47·03	1·47·16	1·47·60	1·47·13	1·47·21	1·47·17	1·47·51	1·47·58	1·47·38	1·46·70	1·47·05	1·47·01
3	1·47·17	1·47·17	1·47·50	1·47·17	1·47·10	1·47·24	1·47·24	1·47·58	1·47·78	1·48·27	1·47·05	1·47·46
4	1·47·17	1·47·58	1·47·37	1·47·44	1·47·03	1·47·30	1·47·58	1·47·27	1·47·56	1·47·05	1·46·91	1·46·84
5	1·47·23	1·47·29	1·47·41	1·47·32	1·47·34	1·47·20	1·47·12	1·46·86	1·47·24	1·46·68	1·46·81	1·47·07
6	1·46·79	1·47·05	1·47·05	1·47·03	1·47·24	1·47·22	1·47·24	1·47·44	1·46·89	1·46·96	1·47·17	1·46·88
7												
8	1·46·89	1·47·12	1·46·89	1·47·01	1·47·15	1·47·37	1·47·13	1·47·05	1·46·94	1·46·81	1·47·05	1·46·85
9	1·47·06	1·46·98	1·46·71	1·47·29	1·47·29	1·47·37	1·47·49	1·47·78	1·47·34	1·46·87	1·46·84	1·46·96
10	1·46·76	1·47·15	1·46·98	1·47·15	1·47·30	1·47·44	1·47·20	1·46·94	1·46·80	1·47·04	1·47·12	1·46·98
11	1·47·10	1·47·30	1·47·24	1·47·24	1·47·17	1·47·60	1·47·51	1·47·32	1·47·05	1·46·98	1·47·12	1·47·27
12	1·47·22	1·47·04	1·47·07	1·47·37	1·47·07	1·47·32	1·46·79	1·46·91	1·47·37	1·47·26	1·47·12	1·47·15
13	1·47·57	1·47·37	1·47·19	1·47·44	1·47·37	1·47·51	1·47·57	1·47·71	1·47·77	1·47·27	1·47·30	1·47·34
14	1·47·20	1·47·10	1·47·46	1·47·54	1·47·25	1·47·92	1·47·42	1·48·81	1·48·13	1·47·61	1·47·59	1·47·65
15												
16	1·47·80	1·47·89	1·47·72	1·47·88	1·47·74	1·47·58	1·47·58	1·47·85	1·48·06	1·47·77	1·47·90	1·47·56
17	1·47·80	1·48·06	1·48·05	1·48·15	1·47·53	1·48·44	1·47·92	1·47·86	1·47·86	1·47·70	1·48·01	1·47·98
18	1·47·60	1·48·15	1·48·13	1·47·81	1·48·01	1·47·65	1·47·92	1·48·20	1·48·27	1·48·09	1·48·09	1·48·16
19	1·47·92	1·48·27	1·48·27	1·47·99	1·47·99	1·47·92	1·48·37	1·47·32	1·48·68	1·47·98	1·48·18	1·48·14
20	1·48·39	1·48·08	1·48·32	*1·50·26	1·50·64	1·50·65	1·50·65	1·50·78	1·50·38	1·50·14	1·50·02	1·50·61
21												
22	1·50·78	1·50·78	1·50·97	1·50·79	1·50·71	1·50·90	1·50·73	1·50·76	1·50·83	1·50·47	1·50·55	1·50·64
23	1·50·38	1·50·66	1·50·98	1·50·57	1·50·70	1·50·79	1·51·14	1·50·85	1·50·38	1·50·62	1·50·50	1·50·53
24	1·50·38	1·50·40	1·50·86	1·50·76	1·50·62	1·50·31	1·50·76	1·50·56	1·50·91	1·50·41	1·50·53	1·50·33
25	1·50·26	1·50·53	1·50·47	1·50·64	1·50·63	1·50·96	1·50·55	1·50·31	1·50·31	1·50·13	1·50·39	1·50·53
26	1·50·09	1·49·91	1·50·53	1·50·74	1·50·58	1·50·65	1·51·00	1·50·28	1·50·19	1·49·90	1·49·97	1·50·19
27	1·50·40	1·50·54	1·50·81	1·50·14	1·50·30	1·50·65	1·50·42	1·49·70	1·50·04	1·50·22	1·50·19	1·50·04
28												
29	1·48·23	1·48·23	1·48·33	1·47·93	1·48·22	1·47·75	1·48·20	1·48·30	1·48·61	1·48·09	1·48·28	1·48·25
30	1·48·15	1·48·33	1·48·40	1·48·51	1·48·27	1·48·74	1·48·61	1·48·27	1·48·61	1·48·40	1·48·64	1·48·15
31	1·48·24	1·48·47	1·48·51	1·48·27	1·48·34	1·48·20	1·48·23	1·48·27	1·48·27	1·48·39	1·48·35	1·48·40

SEPTEMBER, 1847.

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time	Noon.	1h. 0	2h. 0	3h. 0	4h. 0	5h. 0	6h. 0	7h. 0	8h. 0	9h. 0	10h. 0	11h. 0
1	1°48'23	1°48'48	1°48'38	1°48'43	1°48'07	1°47'79	1°48'27	1°48'66	1°48'88	1°48'61	1°48'50	1°48'42
2	1·48·18	1·48·20	1·47·94	1·48·09	1·48·36	1·48·36	1·48·38	1·48·00	1·48·27	1·48·27	1·48·18	1·48·32
3	2·48·44	1·48·20	1·48·06	1·48·00	1·48·27	1·47·86	1·47·98	1·47·92	1·48·13	1·48·37	1·48·33	1·48·27
4												
5	1·48·40	1·48·16	1·48·32	1·48·07	1·48·13	1·47·92	1·47·92	1·48·56	1·48·47	1·48·28	1·48·18	1·48·27
6	1·48·32	1·48·23	1·48·41	1·48·14	1·48·44	1·48·23	1·47·92	1·48·27	1·48·30	1·48·20	1·48·26	1·48·18
7	1·48·08	1·48·37	1·48·34	1·48·34	1·48·33	1·48·09	1·47·99	1·48·44	1·48·61	1·48·32	1·48·18	1·48·25
8	1·48·28	1·48·16	1·48·00	1·48·07	—	—	—	—	—	—	—	—
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

* Reading Telescope disturbed, cause not known.

AUGUST, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.											
	12h.0	13h.0	14h.0	15h.0	16h.0	17h.0	18h.0	19h.0	20h.0	21h.0	22h.0	23h.0
1	1°46'69	1°46'91	1°47'08	1°47'37	1°47'30	1°47'32	1°47'51	1°47'31	1°46'89	1°47'32	1°47'08	1°47'22
2	1·46·98	1·46·91	1·47·00	1·46·90	1·47·46	1·47·19	1·47·06	1·47·12	1·47·50	1·47·03	1·47·10	1·47·07
3	1·47·24	1·47·37	1·47·46	1·47·10	1·47·39	1·47·37	1·47·39	1·47·04	1·47·64	1·47·11	1·46·98	1·47·17
4	1·46·91	1·46·91	1·47·22	1·47·42	1·46·85	1·47·44	1·47·43	1·46·98	1·46·65	1·46·86	1·47·38	1·47·12
5	1·46·98	1·47·12	1·47·31	1·47·65	1·47·34	1·46·88	1·47·17	1·46·89	1·47·02	1·47·20	1·46·64	1·46·96
6	1·47·15	1·47·00	1·47·45	1·47·08	1·46·90	1·46·69	1·46·79	1·46·81	1·46·67	1·46·88	1·46·69	1·46·86
7												
8	1·46·79	1·47·22	1·46·98	1·47·45	1·47·24	1·47·25	1·47·00	1·46·55	1·47·24	1·46·69	1·46·69	1·46·86
9	1·46·91	1·47·28	1·47·22	1·47·12	1·47·27	1·47·44	1·47·27	1·46·92	1·47·02	1·46·72	1·46·81	1·46·95
10	1·46·91	1·46·91	1·47·02	1·47·21	1·46·98	1·47·36	1·46·73	1·47·07	1·46·95	1·47·08	1·47·00	1·47·03
11	1·47·13	1·47·12	1·47·14	1·47·45	1·47·58	1·47·20	1·47·17	1·47·53	1·47·49	1·46·98	1·46·98	1·47·31
12	1·47·39	1·47·29	1·47·31	1·47·37	1·47·27	1·47·00	1·47·12	1·47·10	1·46·89	1·47·26	1·47·13	1·47·17
13	1·47·27	1·47·12	1·47·34	1·47·24	1·47·55	1·47·17	1·46·89	1·47·64	1·47·32	1·47·24	1·47·19	1·47·22
14	1·47·30	1·47·32	1·47·53	1·47·76	1·47·86	1·47·48	1·47·96	1·46·98	1·47·84	1·47·24	1·47·46	1·47·29
15												
16	1·47·49	1·47·53	1·47·53	1·47·81	1·47·96	1·48·11	1·48·11	1·47·93	1·47·74	1·47·57	1·47·74	1·47·63
17	1·48·04	1·47·88	1·48·46	1·48·20	1·47·87	1·47·86	1·47·92	1·47·98	1·47·67	1·47·65	1·47·91	1·47·93
18	1·48·06	1·48·25	1·48·01	1·48·25	1·48·27	1·47·79	1·48·37	1·47·98	1·48·23	1·47·74	1·47·54	1·48·22
19	1·48·18	1·47·87	1·47·94	1·48·32	1·48·18	1·48·03	1·47·87	1·48·29	1·48·37	1·47·82	1·47·96	1·47·87
20	1·50·16	1·50·30	1·50·33	1·50·65	1·50·54	1·50·19	1·50·34	1·50·17	1·50·84	1·50·29	1·50·47	1·50·38
21												
22	1·50·71	1·51·07	1·50·88	1·50·60	1·50·69	1·50·65	1·50·41	1·50·74	1·50·60	1·50·49	1·50·33	1·50·65
23	1·50·38	1·50·73	1·50·72	1·50·46	1·50·50	1·50·93	1·50·34	1·50·92	1·50·63	1·50·49	1·50·44	1·50·49
24	1·50·26	1·50·55	1·50·46	1·50·21	1·50·26	1·50·28	1·50·12	1·50·14	1·50·41	1·50·38	1·50·38	1·50·59
25	1·50·40	1·50·55	1·50·50	1·50·50	1·50·43	1·50·48	1·50·52	1·50·24	1·49·83	1·50·24	1·50·05	1·50·58
26	1·50·09	1·51·14	1·50·39	1·50·28	1·50·36	1·50·06	1·50·21	1·50·24	1·49·63	1·49·99	1·49·91	1·50·09
27	1·50·04	1·50·17	1·50·19	1·50·07	1·50·33	1·49·87	1·50·10	*	1·47·75	1·48·04	1·47·75	1·48·09
28												
29	1·48·39	1·48·52	1·48·54	1·49·52	1·48·35	1·48·06	1·48·09	1·48·20	1·48·35	1·47·99	1·47·75	1·47·99
30	1·48·40	1·48·61	1·48·23	1·48·28	1·48·36	1·48·20	1·48·12	1·48·36	1·48·04	1·48·27	1·48·19	1·48·05
31	1·48·27	1·48·33	1·48·41	1·48·35	1·48·49	1·48·40	1·48·61	1·48·13	1·48·35	1·48·16	1·48·21	1·48·00

SEPTEMBER, 1847.

Göttingen Mean Time.	INDUCTION CORRECTED FOR DECLINATION.											
	12h.0	13h.0	14h.0	15h.0	16h.0	17h.0	18h.0	19h.0	20h.0	21h.0	22h.0	23h.0
1	1°48'27	1°48'54	1°48'35	1°48'75	1°48'21	1°47'93	1°48'01	1°47'77	1°48'30	1°48'01	1°48'05	1°48'13
2	1·48·23	1·48·37	1·48·60	1·48·27	1·48·36	1·48·15	1·48·24	1·48·13	1·48·15	1·48·21	1·48·09	1·47·92
3	1·48·04	1·48·39	1·48·40	1·48·13	1·48·58	1·48·20	1·48·68	1·47·70	1·48·89	1·47·96	1·47·88	1·48·00
4												
5	1·48·01	1·48·37	1·48·09	1·48·54	1·48·28	1·48·07	1·48·29	1·48·11	1·48·28	1·47·94	1·47·77	1·47·87
6	1·48·18	1·48·38	1·48·09	1·48·29	1·48·08	1·47·79	1·48·25	1·48·05	1·48·01	1·47·97	1·48·09	1·48·25
7	1·48·25	1·48·16	1·48·31	1·48·42	1·48·68	1·48·30	1·48·29	1·48·44	1·47·86	1·48·08	1·48·10	1·48·25
8	—	—	—	—	—	—	—	—	—	—	—	—
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

* The reading Telescope re-adjusted.

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′425	12′806	13′287	13′906	13′527	13′047	13′132	13′459	13′906	14′008	14′076	14′042	13′734
5·0	13·389	12·772	13·355	13·906	13·389					14·008	14·076	13·974	13·802
10·0	13·150	12·846	13·355	13·940	13·389					14·008	14·076	13·974	13·837
15·0	13·150	12·973	12·562	13·906	13·459					14·008	14·076	14·008	13·871
20·0	13·219	12·944	13·459	13·923	13·493					14·008	14·111	13·974	13·837
25·0	13·253	13·030	13·700	13·906	13·355					14·111	14·111	13·940	13·700
30·0	13·013	12·978	13·734	13·888	13·287	13·013	13·287	13·630	13·974	14·111	14·111	13·871	13·596
35·0	13·115	13·047	13·579	13·906	13·219					14·111	14·111	13·837	13·630
40·0	12·921	13·219	13·871	13·906	13·184					14·076	14·128	13·837	13·630
45·0	12·944	13·150	13·906	13·888	13·047					14·042	14·042	13·837	13·596
50·0	12·840	13·219	13·940	13·562	12·944					14·076	14·042	13·768	13·596
55·0	12·738	13·047	14·128	13·630	13·064					14·076	14·042	13·734	13·596

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·590	18·890	19·125	19·230	19·150	19·150	18·950	18·610	18·235	17·945	17·815	17·855	17·750
7·0	18·590	18·990	19·185	19·250	19·150					17·920	17·800	17·860	17·770
12·0	18·605	18·865	19·190	19·300	19·155					17·910	17·790	17·850	17·760
17·0	18·650	18·910	19·240	19·295	19·185					17·910	17·790	17·830	17·750
22·0	18·710	18·890	19·255	19·215	19·190					17·900	17·790	17·820	17·745
27·0	18·765	18·950	19·270	19·210	19·200					17·870	17·790	17·800	17·725
32·0	18·895	19·010	19·300	19·202	19·200	19·150	18·850	18·400	18·100	17·850	17·790	17·800	17·710
37·0	18·880	19·010	19·252	19·200	19·250					17·845	17·800	17·800	17·745
42·0	18·950	19·030	19·245	19·187	19·245					17·835	17·820	17·800	17·745
47·0	18 920	19·105	19·245	19·150	19·250					17·845	17·820	17·790	17·770
52·0	19·000	19·020	19·245	19·150	19·250					17·840	17·840	17·780	17·750
57·0	18·975	19·100	19·240	19·150	19·240					17·835	17·850	17·770	17·735
Therm.	77°6	77°0	77°6	79°5	81°8	81°8	84°3	85°2	85°8	85°4	85°0	83°2	82°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·31·30	2·31·20	2·39·90	2·29·55	1·47·70					1·43·80	2·06·00	2·05·80	2·02·00
8·0	2·31·30	2·35·80	2·39·90	2·20·95	1·47·70					1·47·50	2·06·00	2·05·80	2·02·00
13·0	2·31·30	2·35·80	2·39·90	2·14·00	1·40·75					1·47·50	2·06·00	2·05·80	2·02·00
18·0	2·31·30	2·35·80	2·39·90	2·14·00	1·40·75					1·47·50	1·06·00	2·05·80	2·02·00
23·0	2·31·30	2·39·90	2·39·90	2·14·00	1·40·75					2·00·60	1·49·30	2·05·80	1·45·10
28·0	2·28·00	2·39·90	2·39·90	2·14·00	1·40·50	1·31·70		1·34·90	1·43·80	2·00·60	1·49·30	2·05·80	1·45·10
33·0	2·28·00	2·39·90	2·39·90	2·08·90	1·40·50					2·03·25	1·49·30	2·02·00	1·45·90
38·0	2·20·00	2·39·90	2·39·90	2·08·90	1·35·50					2·03·25	1·49·30	2·02·00	1·45·90
43·0	2·20·00	2·39·90	2·39·90	2·08·90	1·35·50					2·03·25	1·49·30	2·02·00	1·45·90
48·0	2·28·00	2·39·90	2·34·80	2·08·90	1·35·50					2·06·00	1·49·30	2·02·00	1·39·40
53·0	2·28·00	2·39·90	2·34·80	2·04·25	1·35·50					2·06·00	1·49·30	2·02·00	1·39·40
58·0	2·31·20	2·39·90	2·34·80	2·04·25	1·35·50	1·44·10	1·28·85	2·06·75	1·43·80	2·06·00	1·49·30	2·02·00	1·39·40
Therm	79°8	77°9	77°5	78°0	79°3	82°0	82°0	82°3	83°7	83°8	84°0	82°9	82°4

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13'36	13'42	14'04	13'68	13'42	13'42	13'42	13'99	13'94	14'14	14'40	14'09
5·0	13·36	13·42	14·09	13·42					13·94	14·14	14·40	14·09
10·0	13·36	13·42	14·14	13·47					13·94	14·20	14·40	14·09
15·0	13·36	13·42	14·14	13·47					13·96	14·30	14·40	14·09
20·0	13·36	13·42	14·14	13·47					13·99	14·35	14·40	14·09
25·0	13·36	13·36	14·14	13·42					13·99	14·40	14·40	14·04
30·0	13·42	13·62	14·14	13·42	12·90	13·42	13·88	14·04	14·04	14·40	14·20	14·04
35·0	13·42	13·94	14·14	13·42					14·04	14·40	14·20	14·04
40·0	13·42	13·94	14·20	13·42					14·04	14·40	14·20	14·04
45·0	13·42	13·94	14·20	13·42					14·09	14·40	14·14	14·04
50·0	13·42	13·94	14·20	13·42					14·09	14·40	14·14	13·99
55·0	13·42	13·99	14·20	13·42					14·14	14·40	14·09	13·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	10'30	10'40	10'46	10'48	10'050	9'610	9'180	9'130	9'50	9'20	9'30	9'48
7·0	10·30	10·40	10·48	10·48					9.50	9·20	9·30	9.49
12·0	10·30	10·40	10·50	10·49					9·50	9·25	9.35	9.49
17·0	10·30	10·42	10·50	10·50					9.20	9·30	9.40	9·50
22·0	10·30	10·46	10·50	10·50					9·20	9·30	9·39	9·50
27·0	10·30	10·49	10·50	10·50					9·15	9·30	9.40	9·50
32·0	10·32	10·49	10·49	10·50	10·050	9·475	9·120	9·260	9·20	9·30	9.42	9·50
37·0	10·32	10·49	10·49	10·50					9·25	9·32	9.40	9·50
42·0	10·35	10·49	10·50	10·55					9·20	9·34	9.40	9·48
47·0	10·36	10·45	10·48	10·60					9·20	9·35	9·48	9·47
52·0	10·38	10·48	10·48	10·60					9·20	9·35	9.48	9.48
57·0	10·39	10·45	10·48	10·60					9·20	9·35	9·48	9·40
Therm.	71°2	73°2	73°4	74°3					81°2	81°0	80°0	79°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.												
3·0	1·23·07	1·22·44	1·21·92	1·22·31	1·22·68	1 23·06	1·22·93	1·22·83	1·22·65	1·22.14	1·22.24	1·22·08
8·0	1·23·03	1·22·41	1·21·99	1·22·16					1·22·65	1·22·28	1·22·17	1·22·15
13·0	1·23·79	1·22.48	1·21·99	1·22·16					1.22·79	1·22.28	1·22·17	1·22·19
18·0	1·22·79	1·22·61	1·22·20	1·22·23					1·22·79	1·22·28	1·22·21	1·22·22
23·0	1·22·86	1·22·01	1·22·09	1·22·41					1·22·65	1·22·31	1·22·17	1·22·19
28·0	1·22·89	1·22·10	1·22·34	1·22·27					1·22·75	1·22·31	1·22·29	1·22·05
33·0	1·22·65	1·21·75	1·21·77	1·22·20	1·22·94	1·23·14	1·22·84	1·22·75	1·22·75	1·22·31	1·22·22	1·21·95
38·0	1·22·75	1·21·82	1·22·21	1·22·13					1·22·75	1·22·31	1·22·19	1·21·98
43·0	1·22·56	1·22·00	1·22·51	1·22·10					1·22·56	1·22·33	1·22·18	1·21·98
48·0	1·22·58	1·21·93	1·22·54	1·22·25					1·22·10	1·22·24	1·22·19	1·21·95
53·0	1·22·48	1·21·86	1·22·60	1·22·15					1·22·14	1·22·24	1·22·12	1·21·95
58·0	1·22·38	1·21·68	1·22·76	1·22·27					1·22·14	1·22·24	1·22·08	1·21·95

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·081	12·944	14·042	14·420	13·906	13·219	13·991	14·386	14·368	14·008	13·906	13·425	13·768
5·0	13·219	13·047	13·974	14·523	13·871					14·008	13·837	13·389	13·837
10·0	13·115	12·944	13·940	14·557	13·562					13·906	13·837	13·253	13·906
15·0	13·115	13·013	13·906	14·523	13·493					13·974	13·717	13·253	13·906
20·0	13·253	12·944	13·991	14·592	13·493					13·974	13·562	13·184	13·940
25·0	13·459	13·219	14·213	14·626	13·562					14·076	13·562	13·253	13·940
30·0	13·355	13·321	14·179	14·592	13·493	13·476	14·317	14·488	14·249	14·008	13·562	13·287	13·940
35·0	13·115	13·287	14·557	14·386	13·287					13·974	13·562	13·321	13·974
40·0	12·840	13·425	14·249	14·283	13·047					13·974	13·527	13·425	13·974
45·0	12·978	13·476	14·592	14·317	13·150					13·974	13·425	13·459	13·974
50·0	13·013	13·562	14·626	14·283	13·201					13·974	13·425	13·493	13·974
55·0	12·944	13·734	14·592	14·042	13·081					13·974	13·425	13·562	13·974

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·630	18·865	18·960	19·107	19·190	19·095	18·950	18·590	18·360	18·095	17·790	17·690	17·547
7·0	18·700	18·810	18·985	19·160	19·190					18·040	17·775	17·690	17·525
12·0	18·690	18·870	18·970	19·200	19·200					18·010	17·750	17·690	17·520
17·0	18·740	18·975	19·050	19·252	19·175					17·995	17·740	17·645	17·595
22·0	18·770	18·935	19·120	19·250	19·100					17·990	17·735	17·630	17·550
27·0	18·790	18·942	19·170	19·250	19·105					17·940	17·727	17·620	17·520
32·0	18·765	18·910	19·150	19·250	19·150	19·050	18·800	18·412	18·270	17·900	17·750	17·570	17·552
37·0	18·820	18·925	19·147	19·160	19·100					17·875	17·710	17·555	17·565
42·0	18·855	18·965	19·100	19·150	19·150					17·847	17·705	17·565	17·577
47·0	18·840	18·950	19·100	19·150	19·105					17·810	17·695	17·585	17·560
52·0	18·845	18·985	19·100	19·109	19·100					17·820	17·692	17·560	17·590
57·0	18·920	19·010	19·100	19·150	19·105					17·810	17·702	17·560	17·575
Therm.	77°7	77°2	77°9	79°5	81°0	82°3	83°3	83°8	83°3	83°1	83°5	82°4	81°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	3·30·50	3·27·30	3·47·10	3·16·00	1·49·90					3·06·10	3·04·75	3·05·00	3·21·40
8·0	3·30·50	3·38·00	3·42·40	3·07·75	1·46·50					3·06·10	3·04·75	3·05·00	3·21·40
13·0	3·30·50	3·38·00	3·38·20	3·32·10	1·40·45					3·06·10	3·04·75	3·05·00	3·21·40
18·0	3·30·50	3·30·50	3·32·90	2·46·15	1·42·25					3·06·10	2·49·90	3·05·00	3·27·20
23·0	3·40·90	3·30·50	3·36·30	3·06·25	1·42·25					3·10·10	2·49·90	3·11·10	3·27·20
28·0	3·40·90	3·37·30	3·36·30	2·47·40	1·42·25	2·07·00	3·16·60	3·03·15	2·48·35	3·10·10	3·02·80	3·11·10	3·27·20
33·0	3·36·60	3·40·80	3·36·30	2·42·50	1·37·50					3·10·10	3·02·80	3·14·00	3·27·20
38·0	3·36·60	3·40·80	3·36·30	2·37·95	1·37·50					3·10·10	3·02·80	3·14·00	3·19·20
43·0	3·21·00	3·40·80	3·36·30	2·32·60	1·37·50					3·10·10	2·47·80	3·14·00	3·19·20
48·0	3·21·00	3·40·80	3·36·30	2·31·25	1·41·00					3·10·10	2·47·70	3·21·40	3·19·20
53·0	3·21·00	3·40·80	3·28·15	2·24·55	1·43·30					3·10·10	2·47·70	3·21·40	3·14·00
58·0	3·21·00	3·40·80	3·23·50	2·04·65	1·43·30	2·25·25	3·07·75	2·48·35		3·04·75	2·47·70	3·21·40	3·14·00
Therm.	80°3	78°4	77°9	78°2	79°3	80°3	80°8	81°6	81°5	81°9	82°3	81°9	82°4

* A sudden vibration at the time.

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14·47	15·51	16·04	15·82	14·47	15·51	15·82	15·77	15·51	15·35	14·73	14·99
5·0	14·47	15·56	16·04	15·45					15·45	15·25	14·57	15·45
10·0	14·52	15·61	16·04	15·40					15·40	15·25	14·52	15·45
15·0	14·57	15·61	16·04	15·30					15·45	15·25	14·52	15·51
20·0	14·57	15·66	16·04	15·25					15·45	15·25	14·52	15·51
25·0	14·62	15·87	16·04	15·14					15·45	15·14	14·52	15·56
30·0	14·67	15·92	16·04	14·99	14·99	15·80	15·92	15·51	15·45	15·09	14·62	15·56
35·0	14·93	15·97	16·04	14·78					15·45	15·09	14·52	15·56
40·0	14·99	15·97	16·04	14·62					15·45	15·09	14·52	15·61
45·0	15·14	15·97	15·97	14·47					15·45	15·09	14·52	15·77
50·0	15·30	16·04	15·97	14·47					15·40	14·73	14·52	15·82
55·0	15·45	16·04	15·92	14·47					15·40	14·83	14·93	15·71

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	10·50	10·60	10·50	10·52	10·550	10·250	10·190	9·900	9·75	9·50	9·60	9·44
7·0	10·50	10·65	10·60	10·50					9·74	9·50	9·60	9·44
12·0	10·50	10·70	10·65	10·59					9·74	9·54	9·60	9·40
17·0	10·40	10·65	10·72	10·59					9·75	9·57	9·52	9·40
22·0	10·40	10·65	10·70	10·60					9·78	9·55	9·50	9·40
27·0	10·46	10·65	10·65	10·60					9·65	9·56	9·50	9·40
32·0	10·46	10·60	10·60	10·60	10·60	10·150	10·000	9·900	9·59	9·58	9·49	9·40
37·0	10·50	10·60	10·54	10·50					9·55	9·58	9·49	9·48
42·0	10·50	10·60	10·52	10·60					9·55	9·60	9·48	9·49
47·0	10·55	10·60	10·49	10·57					9·52	9·60	9·45	9·49
52·0	10·60	10·60	10·49	10·59					9·51	9·60	9·45	9·50
57·0	10·65	10·55	10·50	10·59					9·51	9·60	9·47	9·50
Therm.	73°0	73°4	74°2	75°2	76°6	78°0	79°4		79°8	80°0	80°0	78°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	1·22·49	1·22·53	1·22·77	1·22·39	1·22·29	1·22·48	1·22·34	1·22·57	1·22·50	1·22·26	1·21·91	1·22·26
8·0	1·22·49	1·22·46	1·22·87	1·22·36					1·22·50	1·22·19	1·21·88	1·22·38
13·0	1·22·29	1·22·43	1·22·90	1·22·05					1·22·40	1·22·33	1·21·74	1·22·40
18·0	1·22·36	1·22·50	1·22·72	1·22·13					1·22·46	1·22·21	1·21·89	1·22·46
23·0	1·22·29	1·22·40	1·22·79	1·22·13					1·22·32	1·22·05	1·21·82	1·22·43
28·0	1·22·57	1·22·40	1·22·83	1·22·20					1·22·42	1·22·05	1·21·89	1·22·43
33·0	1·22·67	1·22·70	1·22·79	1·22·27	1·21·97	1·22·80	1·22·45	1·22·60	1·22·36	1·22·05	1·21·92	1·22·43
38·0	1·22·38	1·22·67	1·22·59	1·22·20					1·22·32	1·22·05	1·21·96	1·22·46
43·0	1·22·25	1·23·05	1·22·48	1·22·12					1·22·32	1·22·02	1·22·06	1·22·32
48·0	1·22·12	1·22·74	1·22·92	1·22·22					1·22·32	1·21·91	1·22·10	1·22·32
53·0	1·22·20	1·23·08	1·22·94	1·22·27					1·22·32	1·21·91	1·21·98	1·22·32
58·0	1·22·38	1·22·04	1·22·53	1·22·15					1·22·32	1·21·92	1·22·05	1·22·32

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	12·876	13·562	14·386	15·176	14·936	13·355	12·978	14·249	14·249	14·386	14·592	13·940	13·768
5·0	13·013	13·527	14·660	15·280	14·901					14·420	14·592	13·940	13·837
10·0	12·944	13·613	14·523	15·382	14·592					14·454	14·592	13·940	13·940
15·0	12·978	13·579	14·592	15·280	14·592					14·523	14·592	13·940	14·008
20·0	13·115	13·906	14·694	15·485	14·488					14·557	14·454	13·940	14·145
25·0	13·219	13·700	14·867	15·280	14·249					14·592	14·454	13·837	14·145
30·0	13·253	13·768	14·936	15·228	14·249	12·738	13·579	14·249	14·317	14·557	14·454	13·734	14·145
35·0	13·287	13·734	14·936	15·280	13·906					14·557	14·454	13·664	14·145
40·0	13·372	13·768	15·280	15·245	13·906					14·592	14·351	13·700	14·179
45·0	13·372	14·042	14·970	14·953	13·562					14·592	14·249	13·837	14·145
50·0	13·219	14·042	15·211	14·936	13·562					14·557	14·179	13·768	14·145
55·0	13·425	14·213	15·245	15·004	13·562					14·592	14·076	13·768	14·145

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·935	19·000	19·255	19·130	19·040	19·000	18·860	18·590	18·460	18·300	18·150	17·997	18·055
7·0	18·930	19·050	19·230	19·100	19·000					18·280	18·150	18·000	18·070
12·0	18·925	19·025	19·215	19·060	19·000					18·257	18·120	18·005	18·085
17·0	19·000	19·025	19·200	19·090	19·040					18·230	18·085	18·005	18·115
22·0	19·020	19·005	19·195	19·100	19·042					18·220	18·075	17·990	18·140
27·0	19·055	19·080	19·125	19·060	19·030					18·210	18·070	18·010	18·152
32·0	19·935	19·125	19·150	19·052	19·050	18·950	18·750	18·550	18·370	18·210	18·040	18·020	18·130
37·0	19·080	19·145	19·175	19·090	19·050					18·222	18·020	18·020	18·145
42·0	19·025	19·130	19·155	19·080	19·050					18·215	18·000	18·030	18·140
47·0	19·095	19·190	19·160	19·050	19·050					18·185	17·985	18·050	18·100
52·0	19·050	19·225	19·150	19·050	19·050					18·172	17·985	18·030	18·100
57·0	19·030	19·250	19·120	19·050	19·000					18·162	18·060	18·050	18·077
Therm.	76°2	76°0	76°7	78°8	80°3	82°0	83°8	84°2	84°2	84°3	83°2	82°2	81°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·22·30	4·30·50	4·31·80	3·48·90	2·23·25				3·19·20	3·28·20	3·19·40	3·10·60	4·11·50
8·0	4·22·30	4·30·50	4·36·00	3·44·10	2·21·90					3·28·20	3·19·40	3·18·80	4·11·50
13·0	4·22·30	4·30·50	4·36·00	3·39·25	2·14·25					3·28·20	3·19·40	3·18·80	4·20·50
18·0	4·32·10	4·30·50	4·32·30	3·33·65	2·07·30					3·28·20	3·15·60	3·18·80	4·20·50
23·0	4·32·10	4·30·50	4·32·30	3·27·50	2·02·20					3·28·20	3·12·00	3·30·00	4·20·50
28·0	4·45·90	4·25·50	4·27·10	3·19·00	1·47·85	2·00·85	3·03·60	3·05·35		3·28·20	3·12·00	3·30·00	4·20·50
33·0	4·45·90	4·25·50	4·27·10	3·11·60	1·39·40					3·28·20	3·12·00	3·30·00	4·20·50
38·0	4·45·90	4·25·50	4·21·90	3·06·20	1·34·60					3·28·20	3·10·60	3·41·80	4·20·50
43·0	4·36·70	4·25·50	4·21·90	3·01·05	1·28·80					3·28·20	3·10·60	4·00·10	4·20·50
48·0	4·30·50	4·25·50	4·15·00	2·45·30	1·28·80					3·28·20	3·10·60	4·00·10	4·20·50
53·0	4·30·50	4·31·80	4·15·00	2·38·60	1·26·50					3·28·20	3·10·60	4·00·10	4·20·50
58·0	4·30·50	4·31·80	4·06·55	2·34·00	1·28·70	2·30·45	3·13·20	3·09·40	3·28·20	3·28·20	3·10·60	4·11·50	4·20·50
Therm.	79°0	77°4	76°9	77°5	78°5	80°0	81°5	82°3	82°6	83°2	82°2	82°0	82°1

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	14′73	15′51	16′04	15′92	13′94	13′94	15′04	14′99	15′25	15′45	14′99	14′62
5·0	15·40	15·51	16·04	15·97					15·14	15·45	15·04	14·62
10·0	15·45	15·77	16·04	15·97					15·35	15·45	15·09	14·57
15·0	15·51	15·87	16·04	15·77					15·40	15·40	14·88	14·52
20·0	15·51	15·92	16·04	15·51					15·40	15·40	14·88	14·78
25·0	15·51	15·97	16·04	15·14					15·45	15·40	14·78	14·93
30·0	15·51	15·97	16·04	14·99	13·42	14·47	14·99	14·99	15·45	15·40	14·67	14·99
35·0	15·51	15·97	16·04	14·93					15·45	15·30	14·57	15·04
40·0	15·67	16·04	16·04	14·88					15·45	15·30	14·57	15·04
45·0	15·66	16·04	16·04	14·73					15·40	15·19	14·52	15·14
50·0	15·25	16·04	15·97	14·52					15·45	15·09	14·73	15·19
55·0	15·40	16·04	16·04	14·20					15·45	15·09	14·73	15·14

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	10·28	10·38	10·10	10·12	9·85	9·540	9·620	9·700	9·90	9·75	9·60	9·74
7·0	10·39	10·25	10·16	10·09					9·94	9·76	9·65	9·75
12·0	10·39	10·19	10·10	10·10					9·98	9·72	9·60	9·74
17·0	10·39	10·19	10·10	10·10					9·98	9·70	9·63	9·79
22·0	10·39	10·18	10·09	10·00					9·99	9·69	9·62	9·79
27·0	10·39	10·18	10·09	9·98					9·99	9·69	9·68	9·78
32·0	10·39	10·17	10·11	9·97	9·55	9·55	9·560	9·785	9·98	9·65	9·69	9·85
37·0	10·40	10·17	10·10	9·90					9·98	9·62	9·68	9·85
42·0	10·39	10·17	10·10	9·87					9·98	9·64	9·70	9·81
47·0	10·39	10·10	10·10	9·86					9·80	9·62	9·74	9·80
52·0	1·040	10·09	10·10	9·85					9·79	9·60	9·73	9·80
57·0	10·40	10·09	10·10	9·85					9·78	9·60	9·74	9·79
Therm.	72°0	71°3	73°2	75°6		80°8	80°9	81°2	81°4	80°2	80°0	78°2

INDUCTION CORRECTED FOR DECLINATION.

Gottingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°22′68	1°22′87	1°23′52	1°23′43	1°23′14	1°22′91	1°22′89	1°22′89	1°23′03	1°23′08	1°22′43	1°22′69
8·0	1·22·60	1·23·15	1·23·63	1·23·39					1·23·06	1·23·08	1·22·58	1·22·76
13·0	1·22·68	1·23·01	1·23·73	1·23·08					1·22·94	1·23·08	1·22·58	1·22·86
18·0	1·22·65	1·23·08	1·23·63	1·23·08					1·23·16	1·23·08	1·22·72	1·22·93
23·0	1·22·83	1·23·18	1·23·83	1·22·98					1·23·20	1·22·94	1·22·72	1·23·06
28·0	1·22·62	1·23·35	1·23·63	1·22·74					1·23·23	1·22·94	1·22·62	1·23·06
33·0	1·22·55	1·23·42	1·23·58	1·22·74	1·22·67	1·22·50	1·23·03	1·23·10	1·23·20	1·22·94	1·22·51	1·22·92
38·0	1·22·51	1·23·42	1·23·63	1·22·39					1·23·20	1·22·94	1·22·58	1·22·78
43·0	1·22·41	1·23·77	1·23·60	1·22·39					1·23·23	1·22·84	1·22·62	1·22·82
48·0	1·22·68	1·23·46	1·23·30	1·22·77					1·23·08	1·22·74	1·22·76	1·22·78
53·0	1·22·68	1·23·70	1·23·29	1·23·35					1·23·05	1·22·82	1·22·69	1·22·78
58·0	1·22·85	1·23·59	1·23·35	1·23·55					1·23·08	1·22·57	1·22·55	1·22·78

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·974	14·249	15·691	15·297	14·249	13·596	13·562	14·179	14·592	14·317	14·145	13·837	13·940
5·0	14·008	14·471	15·587	15·280	14·249					14·317	14·196	13·837	13·940
10·0	14·076	14·386	15·897	15·280	14·230					14·249	14·111	13·837	13·906
15·0	14·042	14·488	15·897	15·159	14·076					14·111	13·974	13·837	13·940
20·0	14·111	14·592	15·416	14·936	13·906					14·111	14·008	13·837	13·974
25·0	13·871	14·798	15·519	14·936	13·906					14·179	14·042	13·837	14·042
30·0	13·957	14·798	15·485	14·936	13·837	13·562	13·751	14·523	14·694	14·111	13·974	13·837	14·076
35·0	14·076	15·074	15·725	14·728	13·596					14·179	14·042	13·837	14·111
40·0	14·145	15·108	15·623	14·592	13·562					14·145	13·940	13·837	14·111
45·0	14·076	15·314	15·587	14·592	13·596					14·145	13·906	13·768	14·111
50·0	14·111	15·142	15·519	14·420	13·630					14·145	13·906	13·768	14·111
55·0	14·351	15·245	15·553	14·249	13·596					14·145	13·906	13·768	14·076

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·945	19·285	19·450	19·500	19·500	19·295	18·950	18·515	18·090	17·875	17·800	17·690	17·900
7·0	18·930	19·330	19·440	19·550	19·490					17·835	17·770	17·690	17·920
12·0	19·050	19·295	19·410	19·595	19·452					17·835	17·750	17·740	17·900
17·0	19·100	19·375	19·440	19·562	19·450					17·825	17·740	17·750	17·860
22·0	19·120	19·375	19·490	19·560	19·450					17·880	17·770	17·770	17·940
27·0	19·210	19·320	19·520	19·500	19·455	19·000	18·765	18·285	17·962	17·800	17·770	17·830	17·965
32·0	19·230	19·350	19·490	19·540	19·500					17·800	17·735	17·845	17·850
37·0	19·120	19·340	19·495	19·500	19·500					17·780	17·717	17·830	17·820
42·0	19·230	19·400	19·450	19·500	19·455					17·760	17·680	17·845	17·820
47·0	19·235	19·390	19·500	19·450	19·450					17·730	17·680	17·855	17·810
52·0	19·295	19·435	19·500	19·450	19·350					17·772	17·700	17·930	17·850
57·0	19·220	19·435	19·480	19·490	19·300					17·825	17·710	17·855	17·845
Therm.	76°0	75°8	76°9	78°5	80°0	81°3	82°5	83°3	83°8	84°4	84°2	83°4	81°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·11·70	4·38·50	4·36·80	3·32·50	2·49·55					3·27·85	3·25·50	3·30·60	4·15·80
8·0	4·11·70	4·38·50	4·32·50	3·24·65	2·49·55					3·27·85	3·25·50	3·35·30	4·15·80
13·0	4·16·70	4·38·50	4·32·50	3·17·80	2·49·55					3·27·85	3·20·35	3·35·30	4·15·80
18·0	4·23·90	4·38·50	4·21·90	3·17·80	3·03·00					3·27·85	3·20·35	3·35·30	4·15·80
23·0	4·29·50	4·44·70	4·15·10	3·17·80	3·03·00					3·27·85	3·24·90	3·35·30	4·21·40
28·0	4·29·50	4·48·90	4·11·00	3·17·80	2·43·50	3·13·75	3·18·75	3·39·25	3·35·65	3·27·85	3·24·90	3·40·40	4·25·60
33·0	4·29·50	4·48·90	4·11·00	3·11·05	2·38·60					3·32·00	3·24·90	3·40·40	4·25·60
38·0	4·29·50	4·48·90	4·06·80	3·09·25	2·38·60					3·32·00	3·26·55	3·47·00	4·31·50
43·0	4·29·50	4·48·90	4·06·80	3·03·75	2·38·60					3·32·00	3·26·55	3·47·00	4·31·50
48·0	4·29·50	4·48·90	3·46·80	3·03·75	2·43·25					3·32·00	3·26·55	3·47·00	4·31·50
53·0	4·34·20	4·41·60	3·46·30	3·03·75	2·48·75					3·32·00	3·26·55	4·03·80	4·31·50
58·0	4·38·50	4·36·80	3·36·40	2·49·55	2·48·75	3·13·75	3·33·0	3·35·65	3·26·00	3·32·00	3·30·60	4·11·10	4·31·50
Therm.	78°9	77°0	76°7	77°0	77°5	79°0	80°1	81°2	81°7	82°6	82°6	83°0	82°5

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15'45	16'56	16'56	15'40	14'73	14'47	14'47	14'99	14'93	14'67	14'40	14'25
5·0	15·51	16·56	16·50	15·30					14·93	14·67	14·40	14·20
10·0	15·51	16·61	16·45	15·30					14·78	14·67	14·35	14·20
15·0	15·71	16·56	16·24	15·09					14·83	14·52	14·35	14·30
20·0	15·87	16·56	16·04	14·99					14·57	14·57	14·35	14·35
25·0	15·92	16·56	16·04	14·93					14·57	14·52	14·25	14·40
30·0	15·97	16·56	15·97	14·78	14·47	14·20	14·99	14·99	14·57	14·52	14·25	14·40
35·0	16·04	16·56	15·92	14·73					14·73	14·52	14·30	14·47
40·0	16·04	16·56	15·87	14·73					14·73	14·52	14·30	14·47
45·0	16·04	16·56	15·82	14·62					14·78	14·47	14·30	14·57
50·0	16·30	16·56	15·61	14·67					14·78	14·47	14·30	14·57
55·0	16·40	16·56	15·51	14·73					14·73	14·40	14·25	14·57

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	10·10	10·30	10·50	10·59	10·37	9·80	9·17	8·92	9·10	9·15	9·20	9·49
7·0	10·12	10·30	10·56	10·59					9·15	9·15	9·28	9·50
12·0	10·15	10·30	10·62	10·59					9·20	9·14	9·30	9·50
17·0	10·16	10·35	10·68	10·59					9·25	9·12	9·29	9·50
22·0	10·18	10·39	10·68	10·50					9·28	9·18	9·28	9·51
27·0	10·19	10·40	10·60	10·52					9·23	9·21	9·37	9·54
32·0	10·25	10·40	10·60	10·57	10·00	9·35	9·08	8·97	9·17	9·20	9·44	10·02
37·0	10·23	10·40	10·59	10·54					9·10	9·20	9·47	9·52
42·0	10·19	10·43	10·60	10·50					9·10	9·14	9·48	9·48
47·0	10·23	10·48	10·60	10·49					9·08	9·19	9·48	9·47
52·0	10·28	10·49	10·60	10·44					9·12	9·20	9·52	9·50
57·0	10·29	10·49	10·57	10·38					9·19	9·20	9·50	9·50
Therm.	71°8	71°6	72°2	73°4	76°0	78°0	79°6	80°4	80°0	80°0	80°0	79°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1·22·89	1·24·04	1·23·36	1·22·74	1·22·38	1·22·70	1·22·82	1·22·94	1·22·67	1·22·50	1·22·19	1·22·29
8·0	1·23·15	1·23·94	1·23·48	1·22·74					1·22·67	1·22·55	1·22·19	1·22·29
13·0	1·23·02	1·24·25	1·23·48	1·22·72					1·22·60	1·22·46	1·22·33	1·22·25
18·0	1·23·13	1·24·10	1·23·36	1·22·56					1·22·46	1·22·32	1·22·33	1·22·29
23·0	1·23·13	1·23·61	1·23·27	1·22·40					1·22·46	1·22·36	1·22·33	1·22·32
28·0	1·23·29	1·23·72	1·23·27	1·22·39					1·22·53	1·22·39	1·22·19	1·22·39
33·0	1·23·29	1·23·69	1·23·08	1·22·62	1·22·68	1·22·31	1·23·01	1·22·89	1·22·46	1·22·32	1·22·19	1·22·42
38·0	1·23·42	1·23·92	1·22·92	1·22·52					1·22·53	1·22·39	1·22·19	1·22·46
43·0	1·23·31	1·23·82	1·23·08	1·22·48					1·22·50	1·22·29	1·22·19	1·22·46
48·0	1·23·51	1·23·65	1·22·91	1·22·52					1·22·50	1·22·26	1·22·12	1·22·46
53·0	1·23·49	1·23·58	1·22·74	1·22·41					1·22·50	1·22·26	1·22·12	1·22·46
58·0	1·23·60	1·23·61	1·22·74	1·22·38					1·22·50	1·22·26	1·22·12	1·22·43

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′249	13′871	15′004	15′038	14′728	13′596	13′219	13′047	13′768	14′317	15′416	14′901	14′179
5·0	14·076	14·093	14·936	14·936	14·762					14·454	15·485	14·867	14·179
10·0	14·145	14·008	15·038	14·970	14·901					14·592	15·348	14·832	14·249
15·0	14·454	14·025	15·245	15·211	14·901					14·694	15·348	14·762	14·317
20·0	14·213	14·179	15·416	15·280	14·592					14·728	15·280	14·728	14·386
25·0	14·162	14·454	14·970	15·038	14·660					14·728	15·211	14·592	14·420
30·0	14·386	14·660	15·021	15·074	14·592	13·219	13·321	13·493	13·837	14·832	15·176	14·454	14·386
35·0	14·111	14·798	14·970	15·280	14·592					14·867	14 936	14·420	14·386
40·0	13·974	14·694	14·936	15·280	14·420					14·762	14·918	14·386	14·386
45·0	13·940	14·832	14·970	15·280	14·179					14·867	14·867	14·249	14·454
50·0	13·940	14·694	14·970	14·970	14·179					15·074	14·815	14·249	14·454
55·0	13·906	14·901	15·004	14·936	13·768					15·280	14·901	14·179	14·523

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·085	19·160	19·135	19·260	19·400	19·250	19·240	18·820	18·530	18·185	17·950	18·060	18·000
7·0	19·255	19·130	19·180	19·300	19·350					18·150	17·975	18·060	17·990
12·0	19·030	19·125	19·200	19·290	19·385					18·140	17·975	18·065	17·960
17·0	19·120	19·100	19·240	19·290	19·350					18·100	17·990	18·100	17·980
22·0	19·165	19·180	19·240	19·350	19·350					18·080	17·970	18·100	17·995
27·0	19·240	19·120	19·305	19·350	19·350					18·015	17·980	18·120	18·010
32·0	19·220	19·135	19·300	19·310	19·295	19·300	19·050	18·625	18·325	18·000	18·000	18·100	18·070
37·0	19·145	19·060	19·300	19·310	19·305					18·000	18·002	18·080	18·070
42·0	19·240	19·100	19·300	19·300	19·290					18·005	18·050	18·060	18·070
47·0	19·205	19·150	19·300	19·400	19·250					18·020	18·060	18·070	18·070
52·0	19·115	19·185	19·255	19·400	19·250					17·985	18·055	18·055	18·100
57·0	19·215	19·165	19·255	19·400	19·250					17·945	18·045	18·040	18·150
Therm.	74°0	74°2	75°1	77°0	79°0	80°1	81°5	82°8	83°2	83°5	83°2	82°6	81°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·07·20	5·08·30	5·03·00	4·10·50	3·17·70					4·03·20	4·27·15	4·11·60	4·25·00
8·0	5·23·80	5·08·30	5·03·00	4·10·50	3·17·70					4·06·85	4·21·40	4·11·60	4·25·00
13·0	5·23·80	5·08·30	4·43·20	4·10·50	3·08·40					4·07·00	4·19·20	4·11·60	4·32·80
18·0	5·23·80	5·11·70	4·38·30	4·05·05	2·48·80					4·10·95	4·19·20	4·11·60	4·32·80
23·0	5·17·00	5·16·50	4·30·00	3·47·90	2·48·80					4·10·95	4·19·20	4·11·60	4·32·80
28·0	5·13·70	5·16·50	4·22·75	3·40·50	2·44·10	2·14·50	2·24·15	2·49·70	3·34·10	4·14·90	4·19·20	4·11·60	4·32·80
33·0	5·13·70	5·16·50	4·22·75	3·40·50	2·39·50					4·14·90	4·11·60	4·11·60	4·32·80
38·0	5·07·50	5·16·50	4·20·20	3·40·50	2·35·50					4·14·90	4·11·60	4·18·50	4·32·80
43·0	5·00·50	5·16·50	4·20·20	3·40·50	2·31·30					4·14·90	4·11·60	4·18·50	4·32·80
48·0	5·00·50	5·16·50	4·20·20	3·40·50	2·31·30					4·17·50	4·11·60	4·18·50	4·25·10
53·0	5·00·50	5·09·00	4·15·60	3·40·50	2·22·60					4·22·05	4·11·60	4·18·50	4·25·10
58·0	5·00·50	5·09·00	4·10·50	3·17·70	2·22·60	2·19·40	2·26·60	3·14·65	4·00·25	4·27·15	4·11·60	4·18·50	4·25·10
Therm.	77°0	75°4	75°0	75°5	77°0	78°0	79°5	81°5	81°7	81°9	82°2	82°0	81°5

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14′47	15′51	15′19	15′40	14′30	13′42	13′31	13′49	14′62	15′51	15′25	14′20
5·0	14·47	15·51	15·19	15·40					14·83	15·66	15·25	14·20
10·0	14·47	15·56	15·19	15·40					14·88	15·77	15·14	14·35
15·0	14·78	15·56	15·30	15·40					14·78	15·82	15·14	14·40
20·0	14·83	15·61	15·40	15·25					14·93	15·71	15·09	14·40
25·0	14·88	15·66	15·45	15·14					14·99	15·51	14·99	14·47
30·0	14·99	15·45	15·51	15·04	13·42	13·42	13·83	14·04	14·99	15·45	14·67	14·40
35·0	14·99	15·45	15·45	14·99					14·99	15·40	14·52	14·40
40·0	15·25	15·45	15·45	14·93					15·04	15·25	14·52	14·40
45·0	15·35	15·40	15·51	14·98					15·19	15·19	14·47	14·47
50·0	15·35	15·45	15·51	14·83					15·35	15·19	14·40	14·47
55·0	15·45	15·35	15·45	14·52					15·45	15·09	14·25	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	10·02	9·90	9·90	10·10	9·92	9·54	9·81	8·78	8·90	8·74	9·00	9·10
7·0	10·03	9·89	9·90	10·10					8·90	8·78	9·00	9·09
12·0	10·02	9·89	9·90	10·15					8·92	8·76	9·10	9·10
17·0	10·02	9·89	9·89	10·17					8·90	8·79	9·09	9·10
22·0	10·00	9·94	9·94	10·14					8·88	8·80	9·10	9·10
27·0	10·00	10·00	9·95	10·05					8·82	8·87	9·18	9·15
32·0	10·00	9·99	9·99	10·02	9·80	9·10	8·70	8·80	8·80	8·80	9·18	9·20
37·0	9·99	9·99	9·99	10·04					8·76	8·84	9·19	9·25
42·0	9·98	9·98	9·99	10·02					8·75	8·89	9·20	9·28
47·0	9·96	9·97	9·99	10·00					8·78	8·90	9·19	9·29
52·0	9·96	9·98	10·08	9·98					8·73	8·90	9·19	9·29
57·0	9·90	9·90	10·10	9·96					8·70	8·98	9·15	9·30
Therm.	70°0	70°0	70°0	72°0	73°4	75°6	77°8	78°3	79°6	79°2	79°8	79°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	5h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°22′22	1°23′06	1°23′24	1°22′79	1°22′24	1°23′01	1°22′84	1°22′98	1°22′67	1°23′62	1°23′25	1°22′96
8·0	1·22·44	1·23·00	1·22·14	1·22·82					1·22·80	1·23·69	1·23·22	1·22·96
13·0	1·22·36	1·22·95	1·23·17	1·22·96					1·22·94	1·23·55	1·23·18	1·22·89
18·0	1·22·38	1·23·16	1·23·41	1·22·96					1·23·04	1·23·55	1·23·11	1·22·96
23·0	1·22·53	1·23·33	1·23·48	1·22·65					1·23·06	1·23·48	1·23·06	1·22·74
28·0	1·22·80	1·23·03	1·23·24	1·22·86					1·23·08	1·23·41	1·22·94	1·22·77
33·0	1·22·86	1·23·06	1·22·98	1·22·79	1·22·57	1·23·25	1·22·84	1·22·91	1·23·18	1·23·53	1·22·80	1·22·74
38·0	1·23·00	1·23·03	1·23·19	1·22·94					1·23·22	1·23·29	1·22·77	1·22·88
43·0	1·22·75	1·23·00	1·23·19	1·22·77					1·23·11	1·23·27	1·22·73	1·22·88
48·0	1·22·89	1·23·03	1·23·19	1·22·53					1·23·22	1·23·22	1·22·89	1·22·94
53·0	1·22·75	1·23·17	1·22·74	1·22·53					1·23·42	1·23·17	1·22·89	1·22·94
58·0	1·22·96	1·23·20	1·22·71	1·22·41					1·23·63	1·23·25	1·22·82	1·23·01

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′339	12′876	14′179	14′249	13′837	12′876	13′253	13′459	13′219	13′734	14′145	14′317	13′974
5·0	13·253	13·081	14·300	14·249	13·630					13·768	14·145	14·249	13·974
10·0	13·287	13·219	14·351	14·249	13·562					13·871	14·249	14·317	13·974
15·0	13·219	13·355	14·592	14·111	13·562					13·940	14·249	14·145	14·008
20·0	13·081	13·406	14·626	13·940	13·562					14·008	14·213	14·145	14·111
25·0	13·013	13·253	14·660	13·974	13·425					14·008	14·249	14·111	14·111
30·0	12·978	13·562	14·592	13·871	13·355	12·944	13·630	13·425	13·355	14·042	14·249	14·111	14·249
35·0	12·738	13·527	14·762	13·906	13·219					14·093	14·249	14·111	14·249
40·0	12·601	13·734	14·660	14·008	13·219					14·111	14·317	14·111	14·249
45·0	12·084	13·700	14·351	13·630	13·219					14·145	14·317	14·111	14·213
50·0	12·806	13·802	14·592	13·630	13·150					14·249	14·317	14·042	14·249
55·0	13·150	14·042	14·592	13·837	12·944					14·249	14·317	13·974	14·249

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·930	19·330	19·275	19·350	19·400	19·150	19·000	18·805	18·525	18·260	18·100	18·010	18·050
7·0	18·917	19·280	19·215	19·350	19·400					18·235	18·120	18·030	18·060
12·0	19·000	19·310	19·230	19·305	19·450					18·232	18·110	18·070	18·060
17·0	19·125	19·240	19·240	19·350	19·400					18·210	18·075	18·070	18·050
22·0	19·225	19·292	19·240	19·400	19·395					18·180	18·060	18·050	18·020
27·0	19·210	19·330	19·250	19·365	19·340					18·202	18·050	18·050	18·040
32·0	19·290	19·240	19·250	19·480	19·350	19·100	18·940	18·615	18·440	18·190	18·050	18·050	18·020
37·0	19·275	19·280	19·300	19·375	19·310					18·140	18·035	18·050	18·020
42·0	19·300	19·275	19·300	19·350	19·215					18·220	18·040	18·050	18·040
47·0	19·255	19·282	19·300	19·400	19·200					18·160	18·045	18·050	18·045
52·0	19·290	19·305	19·350	19·375	19·200					18·140	18·045	18·050	18·022
57·0	19·235	19·290	19·302	19·350	19·125					18·100	18·030	18·050	18·010
Therm.	76°9	76°0	77°2	79°0	80°6	81°9	83°0	83°3	84°0	84°5	84°6	83°7	82°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·19·90	5·36·80	6·08·80	5·12·50	4·14·40					5·08·70	5·18·85	5·13·60	5·18·80
8·0	5·28·40	5·46·70	6·14·00	5·12·50	4·14·40					5·12·65	5·18·85	5·13·60	5·29·80
13·0	5·39·70	5·46·70	6·14·00	5·08·55	4·14·40					5·14·80	5·18·85	5·13·60	5·29·80
18·0	5·39·70	5·46·70	6·07·70	5·08·75	4·14·40					5·16·30	5·18·85	5·13·60	5·38·70
23·0	5·39·70	5·46·70	6·07·70	4·49·85	4·14·40					5·18·55	5·18·85	5·13·60	5·38·70
28·0	5·41·10	6·04·80	5·48·90	4·44·25	4·14·40	4·27·35	K. L. C.	4·20·40	4·35·75	5·18·55	5·18·85	5·13·60	5·46·60
33·0	5·26·70	6·04·80	5·42·00	4·44·25	4·14·40					5·18·55	5·18·85	5·13·60	5·46·60
38·0	5·20·80	6·04·80	5·35·00	4·39·60	4·14·40					5·22·65	5·18·85	5·13·60	6·07·40
43·0	5·26·90	6·08·80	5·35·00	4·39·60	4·14·40					5·24·40	5·18·85	5·13·60	6·07·40
48·0	5·31·20	6·08·80	5·26·50	4·28·75	4·14·40					5·24·40	5·18·85	5·13·60	6·07·40
53·0	5·36·80	6·08·80	5·20·60	4·25·40	4·14·40					5·24·00	5·18·85	5·13·60	6·12·70
58·0	5·36·80	6·08·80	5·20·60	4·25·40	4·14·40	4·37·30	4·25·90	4·20·40	5·04·70	5·22·00	5·18·85	5·18·80	6·12·70
Therm.	79°2	77°3	77°0	77°6	78°5	79°5	80°6	81°6	82°2	83°2	83°6	83°3	82°9

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′36	14′20	14′52	14′09	13′26	13′42	13′62	13′42	13′57	14′14	14′30	14′35
5·0	13·31	14·30	14·52	13·99					13·68	14·14	14·35	14·40
10·0	13·42	14·47	14·47	13·88					13·88	14·20	14·35	14·40
15·0	13·42	14·62	14·47	13·78					13·99	14·25	14·40	14·40
20·0	13·47	14·73	14·47	13·78					14·30	14·20	14·40	14·09
25·0	13·47	14·73	14·47	13·68					14·09	14·20	14·40	14·09
30·0	13·68	14·78	14·30	13·62	13·42	13·68	13·42		14·09	14·35	14·40	14·09
35·0	13·78	14·57	14·09	13·57					14·14	14·35	14·09	14·25
40·0	13·88	14·57	14·09	13·52					14·09	14·40	14·35	14·30
45·0	13·94	14·57	14·20	13·52					14·14	14·40	14·30	14·25
50·0	13·99	14·57	14·20	13·42					14·14	14·20	14·35	14·25
55·0	14·04	14·47	14·14	13·36					14·20	14·25	14·35	14·35

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	10·60	10·48	10·49	10·52	10·35	9·89	9·37	9·18	9·14	9·14	9·25	9·29
7·0	10·65	10·40	10·49	10·54					9·10	9·12	9·25	9·32
12·0	10·60	10·39	10·49	10·62					9·13	9·19	9·24	9·35
17·0	10·60	10·39	10·49	10·60					9·10	9·18	9·28	9·38
22·0	10·66	10·35	10·50	10·59					9·10	9·20	9·24	9·36
27·0	10·62	10·35	10·49	10·54					9·10	9·22	9·21	9·39
32·0	10·55	10·39	10·50	10·52	10·00	9·55	9·22	9·14	9·12	9·24	9·26	9·40
37·0	10·52	10·39	10·49	10·57					9·08	9·25	9·25	9·39
42·0	10·50	10·39	10·48	10·48					9·08	9·25	9·28	9·39
47·0	10·50	10·40	10·49	10·49					9·05	9·26	9·27	9·44
52·0	10·49	10·42	10·50	10·48					9·06	9·25	9·29	9·45
57·0	10·49	10·45	10·50	10·40					9·12	9·27	9·30	9·48
Therm.	72°0	72°2	73°4	74°0	75° 8	78°0	79°2	80°0	80°2	81°6	81°3	80°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°11′60	1°12′76	1°12′68	1°12′56	1°12′46	1°13′05	1°14′34	1°13′09	1°13′02	1°13′01	1°12′90	1°12′55
8·0	1·11·80	1·12·88	1·12·68	1·12·35					1·13·06	1·13·01	1·12·83	1·12·55
13·0	1·11·94	1·12·93	1·12·68	1·12·42					1·12·88	1·13·01	1·12·90	1·12·55
18·0	1·12·08	1·13.17	1·12·54	1·12·42					1·12·95	1·13·01	1·12·73	1·12·59
23·0	1·12·13	1·13·06	1·12·37	1·12·42					1·13·02	1·12·93	1·12·73	1·12·54
28·0	1·11·97	1·13·09	1·12·55	1·12·44					1·13·02	1·12·93	1·12·69	1·12·54
33·0	1·12·28	1·13·02	1·12·45	1·12·36	1·09·06	1·13·50	1·13·00	1·12·73	1·13·05	1·12·83	1·12·69	1·12·68
38·0	1·12·25	1·13·19	1·12·49	1·12·37					1·12·95	1·12·83	1·12·69	1·12·68
43·0	1.12·45	1·13·09	1·12·73	1·12·37					1·12·97	1·12·90	1·12·69	1·12·68
48·0	1·12·28	1·12·78	1·12·35	1·12·51					1·13·00	1·12·90	1·12·69	1·12·64
53·0	1·12·38	1·13·02	1·12·35	1·12·59					1·13·11	1·12·90	1·12·62	1·12·68
58·0	1·12·62	1·13·02	1·12·55	1·12·52					1·13·11	1·12·90	1·12·55	1·12·68

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′425	13′802	15′623	17′098	15′280	13′906	13′527	13′562	14′111	14′042	14′249	13′562	13′355
5·0	13·596	13·906	15·897	16·755	15·004					14·042	14·145	13·425	13·355
10·0	13·630	14·179	16·240	16·926	14·867					14·042	14·145	13·389	13·493
15·0	13·493	14·249	16·447	16·926	14·660					14·179	14·145	13·287	13·493
20·0	13·700	14·386	16·309	16·926	14·592					14·179	14·042	13·287	13·630
25·0	13·562	14·523	16·412	16·584	14·420					14·249	14·042	13·287	13·700
30·0	13·613	14·728	16·584	16·309	14·249	13·425	13·562	13·802	14·179	14·249	14·042	13·321	13·768
35·0	13·527	14·728	16·926	16·309	14·592					14·317	13·906	13·287	13·768
40·0	13·630	14·728	16·996	16·068	14·249					14·249	13·906	13·287	13·837
45·0	13·527	15·159	16·996	15·966	14·076					14·317	13·768	13·287	13·837
50·0	13·837	15·314	16·996	15·657	13·974					14·554	13·768	13·287	13·837
55·0	13·630	15·587	16·996	15·280	13·906					14·249	13·768	13·287	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·975	19·075	19·150	19·100	19·150	19·000	18·740	18·470	18·000	17·645	17·550	17·630	17·850
7·0	19·925	19·025	19·150	19·100	19·102					17·600	17·540	17·640	17·860
12·0	19·020	18·970	19·145	19·150	19·130					17·615	17·550	17·650	17·860
17·0	18·985	18·955	19·150	19·150	19·167					17·600	17·535	17·650	17·860
22·0	19·025	18·890	19·122	19·150	19·200					17·615	17·540	17·690	17·860
27·0	19·060	18·970	19·120	19·100	19·150					17·550	17·495	17·730	17·860
32·0	19·025	18·995	19·135	19·102	19·100	18·900	18·650	18·200	17·800	17·550	17·550	17·750	17·850
37·0	19·020	19·010	19·120	19·125	19·105					17·550	17·550	17·760	17·860
42·0	18·990	19·075	19·075	19·150	19·105					17·540	17·570	17·830	17·870
47·0	18·980	19·120	19·100	19·150	19·100					17·550	17·595	17·845	17·870
52·0	19·070	19·150	19·190	19·150	19·100					17·550	17·610	17·850	17·870
57·0	19·015	19·130	19·100	19·190	19·075					17·540	17·610	17·850	17·895
Therm.	77°4	77°0	78°0	80°0	81°6	82°9	84°0			85°8	85°3	84°1	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
		t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	6·41·20	7·38·20	8·11·40	6·31·15	4·33·15					7·07·60	7·06·50	6·36·20	7·11·90
8·0	6·48·40	7·45·50	8·11·40	6·20·00	4·33·15					7·07·60	7·01·75	6·36·20	7·15·80
13·0	7·09·50	7·45·50	8·07·10	6·09·50	4·33·15					7·07·60	7·01·75	6·36·20	7·15·80
18·0	7·35·80	8·03·20	8·01·90	5·46·40	4·33·15					7·07·60	7·01·75	6·36·20	7·15·80
23·0	7·35·80	8·03·20	7·44·30	5·36·50	4·33·15					7·07·60	7·01·75	6·36·20	7·15·80
28·0	7·35·80	8·08·20	7·44·30	5·27·20	4·33·15	4·41·90		6·45·00	7·07·60	7·10·65	6·44·20	6·41·60	7·15·80
33·0	7·35·80	8·03·20	7·33·30	5·16·20	4·33·15					7·10·65	6·44·20	6·41·60	7·15·80
38·0	7·26·90	8·03·20	7·24·20	5·08·06	4·33·15					7·10·65	6·44·20	7·00·80	7·15·80
43·0	7·26·90	8·07·80	7·15·05	4·49·00	4·33·15					7·10·65	6·39·40	7·03·70	7·15·80
48·0	7·26·90	8·07·80	7·09·90	4·37·85	4·33·15					7·10·65	6·39·40	7·06·20	7·18·40
53·0	7·26·90	8·07·80	7·01·35	4·33·15	4·33·15					7·01·65	6·39·40	7·11·90	7·18·40
58·0	7·33·50	8·11·40	6·42·45	4·33·15	4·37·35	5·10·20	6·22·20	7·07·60	7·07·60	7·10·65	6·36·20	7·11·90	7·18·40
Therm.	79°5	78°0	78°0	78°5	79°7	80°7	81°7	82°7	83°6	84°2	84°2	83°7	83°0

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	14′40	15′87	17′28	15′51	14′20	13′62	13′78	14′11	14′20	14′93	13′88	13′42
5·0	14·40	15·92	17·23	15·40					14·30	14·93	13·88	13·52
10·0	14·40	16·04	17·18	15·14					14·40	14·47	13·73	13·52
15·0	14·47	16·30	17·08	15·14					14·47	14·47	13·62	13·73
20·0	14·52	16·56	17·32	14·83					14·47	14·47	13·52	13·83
25·0	14·73	16·71	16·66	14·67					14·47	14·52	13·47	13·88
30·0	14·88	16·71	16·61	14·52	13·68	13·42	13·94	14·47	14·57	14·57	13·47	13·88
35·0	14·99	17·08	16·50	14·52					14·62	14·57	13·42	13·94
40·0	15·19	16·97	16·30	14·30					14·67	14·04	13·42	13·94
45·0	15·40	17·08	16·04	14·30					14·78	14·35	13·42	13·99
50·0	15·56	17·13	15·92	14·25					14·88	13·94	13·42	13·04
55·0	15·77	17·34	15·71	14·20					14·93	13·94	13·42	13·09

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	10·40	10·39	10·30	10·50	10·39	9·70	9·28	9·28	9·00	9.02	9·23	9·55
7·0	10·38	10·39	10·30	10·49					9.00	9·10	9·24	9·52
12·0	10·37	10·39	10·32	10·50					9·00	9·10	9·23	9·52
17·0	10·32	10·39	10·32	10·50					9·02	9·08	9·25	9·52
22·0	10·35	10·38	10·38	10·51					9·02	9·10	9·39	9·52
27·0	10·35	10·32	10·30	10·53					9.00	9·20	9·40	9·50
32·0	10·35	10·30	10·35	10·55	9·90	9·35	9·28	9·090	9·10	9·20	9·42	9·55
37·0	10·39	10·30	10·32	10·55					9·10	9·22	9·49	9·50
42·0	10·39	10·30	10·40	10·58					9·09	9·19	9·50	9·50
47·0	10·39	10·30	10·47	10·49					9·10	9·25	9·50	9·50
52·0	10·38	10·30	10·49	10·45					9·08	9·22	9·50	9·53
57·0	10·38	10·30	10·50	10·39					9·06	9·22	9·50	9·55
Therm.	73°3	73°6	74°0	75°8	76°2	79°0	80°5	82°0	82°0	82°0	81°6	80°0

INDUCTION CORRECTED FOR DECLINATION.

Gottingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
3·0	1°11′22	1°12′48	1°12′81	1°12′85	1°12′05	1°11′96	1°11′85	1°11′39	1°11′32	1°11′25	1°10′84	1°10′50
8·0	1·11·33	1·13·61	1·12·46	1·11·86					1·11·32	1·11·14	1·10·71	1·10·50
13·0	1·11·46	1·13·52	1·12·64	1·11·87					1·11·18	1·11·14	1·10·67	1·10·63
18·0	1·11·39	1·13·73	1·12·64	1·11·66					1·11·32	1·11·14	1·10·57	1·10·63
23·0	1·11·53	1·12·30	1·12·64	1·11·73					1·11·32	1·11·04	1·10·43	1·10·77
28·0	1·11·66	1·12·26	1·12·43	1·11·56					1·11·39	1·11·04	1·10·43	1·10·84
33·0	1·11·87	1·12·29	1·12·30	1·11·39	1·11·86	1·11·99	1·11·65	1·11·46	1·11·39	1·11·04	1·10·46	1·10·91
38·0	1·11·87	1·12·64	1·12·30	1·11·87					1·11·46	1·10·91	1·10·43	1·10·91
43·0	1·11·87	1·12·71	1·12·06	1·11·53					1·11·25	1·10·91	1·10·43	1·10·98
48·0	1·12·30	1·12·71	1·12·11	1·11·36					1·11·32	1·10·77	1·10·43	1·10·84
53·0	1·12·31	1·12·71	1·13·08	1·11·39					1·11·55	1·11·35	1·10·43	1·10·84
58·0	1·12·59	1·12·71	1·12·85	1·11·33					1·11·25	1·11·05	1·10·43	1·10·84

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	12′601	12′978	14′249	13′735	12′119	12′050	13′768	15′416	15′519	15′280	14′798	14′283	13′115
5·0	13·013	13·150	14·454	13·493	12·085					15·280	14·728	14·145	13·013
10·0	12·806	13·150	14·454	13·355	11·981					15·142	14·592	13·768	13·287
15·0	12·772	13·425	14·420	13·081	11·981					15·211	14·454	13·579	13·493
20·0	12·703	13·562	14·386	12·944	11·846					15·280	14·249	13·425	13·630
25·0	12·876	13·700	14·317	12·806	11·845					15·280	14·111	13·287	13·700
30·0	12·669	13·871	14·288	12·601	11·845	12·806		15·725	15·555	15·280	14·076	13·562	13·664
35·0	12·910	14·008	14·249	12·533	11·845					15·211	13·906	13·219	13·596
40·0	12·910	14·145	14·111	12·533	11·845					15·142	13·974	13·219	13·700
45·0	12·876	14·317	14·146	12·394	11·918					15·074	14·042	13·219	13·768
50·0	12·978	14·213	14·179	12·188	12·050					14·936	14·454	12·944	13·837
55·0	12·978	14·454	13·906	12·188	12·050					14·867	14·386	13·150	13·768

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·050	19·400	19·710	19·700	19·790	19·690	19·260	18·430	18·100	17·720	17·495	16·905	17·650
7·0	19·050	19·400	19·680	19·625	19·790					17·700	17·465	16·900	17·730
12·0	19·125	19·420	19·700	19·650	19·790					17·665	17·420	16·970	17·680
17·0	19·135	19·450	19·720	19·670	19·760					17·600	17·385	17·065	17·695
22·0	19·130	19·455	19·750	19·700	19·765					17·600	17·335	17·130	17·725
27·0	19·215	19·570	19·770	19·730	19·790					17·600	17·315	17·220	17·780
32·0	19·175	19·550	19·800	19·785	19·720	19·550		18·240	18·080	17·600	17·265	17·200	17·840
37·0	19·225	19·605	19·760	19·755	19·700					17·600	17·200	17·240	17·800
42·0	19·325	19·690	19·700	19·750	19·700					17·550	17·120	17·240	17·710
47·0	19·465	19·700	19·710	19·750	19·655					17·500	17·070	17·310	17·750
52·0	19·360	19·755	19·700	19·750	19·670					17·470	17·000	17·400	17·750
57·0	19·365	19·670	19·690	19·800	19·720					17·470	16·945	17·550	17·820
Therm.	78°0	77°8	78°5	79°0	81°9	82°9		85°9	86°3	86°2	86°1	85°3	84°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·01·00	8·12·20	7·47·30	6·15·5	6·07·0					8·15·90	7·11·70	6·46·50	7·33·90
8·0	8·01·00	8·12·20	7·39·00	6·15·5	6·13·0					7·45·00	7·06·50	6·46·50	7·33·90
13·0	8·01·00	8·12·20	7·31·00	6·13·5	6·14·0					7·45·00	6·48·40	6·40·20	8·00·00
18·0	8·12·00	8·12·20	7·24·60	6·10·0	6·18·0					7·45·00	6·41·80	6·40·20	8·07·30
23·0	8·12·00	8·12·20	7·18·50	6·07·0	6·21·0					7·45·00	6·41·80	6·40·20	8·07·30
28·0	8·12·00	8·12·20	7·12·90	6·07·0	6·29·0					7·45·00	6·37·20	6·40·20	8·07·30
33·0	8·06·70	8·12·20	7·08·90	6·07·0	6·34·5	7·33·0		8·14·15	8·15·90	7·36·10	6·37·20	6·40·20	8·07·30
38·0	8·06·70	8·12·20	7·02·80	6·07·0	6·40·0					7·36·10	6·37·20	7·09·50	8·07·30
43·0	8·06·70	8·12·20	7·02·80	6·07·0	6·43·5					7·28·40	6·37·20	7·09·50	8·17·20
48·0	8·06·70	8·07·00	6·43·5	6·07·0	7·01·0					7·28·40	6·46·50	7·09·50	8·17·20
53·0	8·06·70	8·07·00	6·37·0	6·07·0	7·06·0					7·18·25	6·46·50	7·17·30	8·17·20
58·0	8·06·70	7·47·30	6·37·5	6·07·0	7·06·0	8·00·0	8·18·05	8·15·90	8·15·90	7·15·30	6·46·50	7·17·30	8·17·20
Therm.	80°5	78°9	78°5	78°9	80°0	80°9	82°5	83°7	84°4	84°7	85°3	84°8	84°5

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′52	14′83	14′20	12′37	12′37		15′92	16′04	15′92	15′40	14′73	13′73
5·0	13·52	14·83	14·09	12·37					15·92	15·30	14·67	13·68
10·0	13.62	14·88	14·04	12·31					15·51	15·19	14·67	13·52
15·0	13 88	14·52	13·94	11·95					15·45	15·09	14·52	13·68
20·0	13·94	14·52	13·36	11·90					15·77	14·99	14·40	13·62
25·0	14·04	14·78	13·31	11·90					15·71	14·88	14·20	13·83
30·0	14·20	14·47	13·10	11·90					15·77	14·47	14·04	13·88
35·0	14·30	14·47	12·90	11·90	13·10		16·04	16·04	15·71	14·40	13·94	13·94
40·0	14·40	14·40	12·83	11·95					15·51	14·35	13·88	13·99
45·0	14·47	14·40	12·78	12·11					15·51	14·52	13·52	13·99
50·0	14·52	14.40	12·73	12·31					15·45	14·47	13·62	14·14
55·0	14·83	14·40	12·67	12·37					15·40	14·73	13·57	14·20

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	10·60	10·71	10·80	10·88	10·75		9·00	9·00	8·88	8·60	8·28	9·08
7·0	10·65	10·69	10·79	10·89					8·80	8·60	8·25	9·18
12·0	10·70	10·72	10·79	10·89					8·78	8·58	8·20	9·34
17·0	10·70	10·79	10·79	10·87					8·70	8·56	8·24	9·28
22·0	10·70	10·80	10·89	10·88					8·66	8·52	8·20	9·31
27·0	10·74	10·89	10·88	10·88					8·78	8·55	8·28	9·36
32·0	10·74	10·95	10·87	10·80					8·68	8·51	8·35	9·48
37·0	10·78	10·98	10·86	10·79	10·34		9·00	9·18	8·70	8·50	8·42	9·50
42·0	10·79	10·89	10·87	10·80					8·70	8·50	8·50	9·39
47·0	10·79	10·89	10·84	10·79					8·60	8·42	8·62	9·42
52·0	10·80	10·89	10·80	10·70					8·62	8·39	8·75	9·38
57·0	10·78	10·88	10·82	10·79					8·55	8·30	8·89	9·47
Therm.	74°0	74°0	74°2	76°0	77°8		82°0	82°8	83°6	83°4	82°2	81°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°11′41	1°12′25	1°11′74	1°11′41	1°11′78		1°12′84	1°12′66	1°12′42	1°12′08	1°11′85	1°11′41
8·0	1·11·58	1·12·45	1·11·63	1·11·53					1·12·42	1·12·01	1·11·72	1·11·30
13·0	1·11·58	1·12·48	1·11·64	1·11·42					1·12·42	1·11·87	1·11·19	1·11·58
18·0	1·11·72	1·12·27	1·11·51	1·11·56					1·12·49	1·11·73	1·11·00	1·11·78
23·0	1·11·85	1·12·00	1·11·52	1·11·43					1·12·56	1·11·53	1·11·28	1·11·92
28·0	1·11·84	1·11·89	1·11·53	1·11·43					1·12·42	1·11·25	1·11·14	1·11·41
33·0	1·12·01	1·11·85	1·11·33	1·11·43					1·12·42	1·11·22	1·11·41	1·11·23
38·0	1·12·15	1·11·67	1·11·25	1·11·43	1·12·25		1·12·87	1·12·70	1·12·35	1·11·19	1·11·22	1·11·16
43·0	1·12·28	1·11·58	1·11·25	1·11·58					1·12·42	1·11·25	1·11·22	1·11·16
48·0	1·12·46	1·11·57	1·11·25	1·11·65					1·12·35	1·11·75	1·11·57	1·11·19
53·0	1·12·35	1·11·60	1·11·05	1·11·78					1·12·22	1·12·16	1·11·23	1·11·12
58·0	1·12·45	1·11·91	1·11·20	1·11·78					1·12·15	1·11·96	1·11·44	1·11·05

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·630	13·596	14·660	14·592	13·425	12·738	12·567	13·734	14·970	15·828	15·828	14·867	14·145
5·0	13·406	13·700	14·762	14·528	13·287					15·828	15·828	14·660	14·213
10·0	13·389	13·664	14·832	14·386	13·150					15·828	15·828	14·592	14·213
15·0	13·253	13·596	14·660	14·317	13·081					15·828	15·691	14·592	14·179
20·0	13·527	13·562	14·523	14·249	13·013					15·828	15·794	14·592	14·179
25·0	13·355	13·768	14·626	14·179	13·013					15·828	15·623	14·317	14·111
30·0	13·253	13·871	14·660	14·042	13·013	12·538	12·944	14·523	15·485	15·897	15·450	14·249	14·111
35·0	13·493	13·871	14·660	14·042	12·944					15·828	15 348	14·249	14·249
40·0	13·355	14·974	14·592	13·906	12·876					15·828	15·348	14·249	14·249
45·0	13·562	14·042	14·592	13·768	12.806					15·828	15·280	14·249	14·249
50·0	13·355	14·213	14·660	13·630	12·806					15·828	15·211	14·213	14·179
55·0	13·493	14·488	14·454	13·562	12·738					15·828	15·074	14·042	14·111

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·360	18·685	19·070	19·200	19·180	19·060	18·860	18·655	18·240	17·950	17·725	17·400	17·610
7·0	18·422	18·715	19·090	19·200	19·110					17·970	17·700	17·370	17·650
12·0	18·410	18·775	19·105	19·190	19·100					17·972	17·650	17·370	17·565
17·0	18·435	18·835	19·120	19·170	19·100					17·950	17·650	17·330	17·650
22·0	18·475	18·835	19·120	19·170	19·100					17·925	17·620	17·380	17·680
27·0	18·560	18·875	19·150	19·200	19·095					17·885	17·577	17·340	17·660
32·0	18·590	18·950	19·150	19·180	19·090	19·040	18·740	18·470	18·075	17·857	17·550	17·315	17·645
37·0	18·620	18·950	19·150	19·180	19·085					17·830	17·527	17·340	17·600
42·0	18·625	18·975	19·170	19·160	19·080					17·800	17·500	17·370	17·600
47·0	18·595	19·075	19·165	19·150	19·065					17·790	17·460	17·440	17·590
52·0	18·665	19·045	19·175	19·150	19·060					17·790	17·440	17·505	17·560
57·0	18·705	19·075	19·200	19·165	19·055					17·770	17·400	17·600	17·500
Therm.	78°0	77°6	78°3	79°5	81°5	82°8		84°6	84°9	85°0	84°7	83°8	82°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	9·00·20	8·33·90	8·34·20	7·47·5	6·36·0					7·38·90	7·27·45	6·48·20	7·11·70
8·0	9·00·20	8·33·90	8·34·20	*	6·39·0					7·38·90	7·20·80	6·48·20	7·20·20
13·0	8·45·00	8·33·90	8·34·20	7·27·00	6·39·0					7·38·90	7·20·80	6·48·20	7·16·00
18·0	9·05·70	8·33·90	8·28·40	7·21·00	6·39·0					7·34·75	7·16·10	6·48·00	7·16·00
23·0	9·05·70	8·29·20	8·28·40	7·16·00	6·43·0					7·34·75	4·16·10	6·48·00	7·10·50
28·0	8·44·60	8·29·20	8·20·60	7·10·50	6·43·0	6·08·5	6·35·50	7·26·25	7·38·90	7·37·80	7·16·10	6·48·00	7·10·50
33·0	8·38·30	8·29·20	8·16·00	7·06·00	6·43·0					7·33·85	7·13·60	7·06·80	7·10·50
38·0	8·38·30	8·29·20	8·11·00	7·01·50	6·43·0					7·38·85	7·13·60	7·06·80	7·10·50
43·0	8·33·90	8·34·20	8·07·0	6·44·00	6·43·0					7·33·85	7·08·80	7·06·80	7·10·50
48·0	8·33·90	8·34·20	8·03·0	6·40·00	6·43·0					7·33·85	7·08·80	7·06·80	7·10·50
53·0	8·33·90	8·34·20	8·00·50	6·38·50	† 5·31·5					7·29·60	7·08·80	7·11·70	7·10·50
58·0	8·33·90	8·34·20	7·47·5	6·36·00	5·30·0	6·08·0	7·11·40	7·41·90	7·38·90	7·27·45	6·49·20	7·11·70	7·10·50
Therm.	79°3	78°5	78°3	78°5	79°5	80°8	82°0	82°6	83°6	84°2	84°3	83°8	82°5

* Vibrating. † Disturbed.

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′99	14′78	14′62	13′78	12′90	12′90	13′99	15′40	15′97	16′09	15′30	14′30
5·0	14·04	14·98	14·57	13·68					15·97	16·04	14·99	14·35
10·0	14·04	14·99	14·52	13·57					16·04	16·09	14·93	14·47
15·0	14·20	14·99	14·52	13·47					16·04	16·04	14·88	14·47
20·0	14·25	15·04	14·57	13·31					16·14	16·04	14·78	14·47
25·0	14·35	15·14	14·52	13·31					16·14	15·97	14·67	14·40
30·0	14·40	15·19	14·47	13·05					16·09	15·92	14·57	14·40
35·0	14·40	15·25	14·47	13·00	12·78	13·26	14·93	15·92	16·14	15·87	14·47	14·40
40·0	14·47	15·30	14·40	12·95					16·14	15·77	14·47	14·47
45·0	14·47	15·09	14·30	12·95					16·09	15·61	14·47	14·47
50·0	14·52	15·09	14·14	12·95					16·09	15·51	14·40	14·47
55·0	14·62	14·83	13·94	12·90					16·09	15·40	14·40	14·52

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	9·50	9·80	9·67	9·70	9·70	9·41	9·20	8·760	8·85	8·68	8·32	8·56
7·0	9·50	9·80	9·68	9·70					8·90	8·60	8·30	8·59
12·0	9·54	9·80	9·68	9·78					8·88	8·58	8·30	8·60
17·0	9·60	9·85	9·69	9·78					8·88	8·52	8·30	8·66
22·0	9·62	9·88	9·69	9·75					8·80	8·50	8·30	8·70
27·0	9·68	9·88	9·70	9·78					8·82	8·48	8·22	8·72
32·0	9·70	9·88	9·72	9·70					8·78	8·45	8·28	8·66
37·0	9·70	9·80	9·78	9·70	9·68	9·20	9·00	8·750	8·72	8·40	8·27	8·60
42·0	9·75	9·78	9·79	9·69					8·70	8·40	8·29	8·65
47·0	9·77	9·70	9·79	9·68					8·70	8·40	8·32	8·67
52·0	9·78	9·70	9·78	9·70					8·71	8·36	8·41	8·68
57·0	9·78	9·68	9·78	9·70					8·69.	8·39	8·51	8·70
Therm.	73°4	73°6	74°0	75°8	76°2	79°3	80°6	81°9	82°0	32°0	81°6	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°12′03	1°12′95	1°13′02	1°12′15	1°12′47	1°12′44	1°12′61	1°13′26	1°12′97	1°12′97	1°12′15	1°12′44
8·0	1·12·13	1·13·05	1·12·95	1·12·01					1·12·97	1·12·97	1·11·94	1·12·50
13·0	1·12·09	1·13·12	1·12·82	1·12·01					1.12·97	1·12·97	1·11·87	1·12·50
18·0	1·12 03	1·12·95	1·12·75	1·11·94					1·12·97	1·12·83	1·11·87	1·12·47
23·0	1·11·99	1·12·81	1·12·68	1·12·02					1·13·11	1·12·93	1·11·87	1·12·47
28·0	1·12·20	1·12·92	1·12·76	1·12·02					1·13·11	1·12·76	1·12·17	1·12·40
33·0	1·12·30	1·12·95	1·12·62	1·12·02	1·12·26	1·12·52	1·12·95	1·13·20	1·13·04	1·12·59	1·12·25	1·12·40
38·0	1·12·30	1·12·95	1·12·62	1·12·38					1·12·97	1·12·49	1·12·39	1·12·54
43 0	1·12·40	1.12·88	1·12·49	1·12·32					1·12·97	1·12·49	1·12·54	1·12·54
48·0	1·12·47	1·12·88	1·12·35	1·12·39					1·12·97	1·12·42	1·12·54	1·12·54
53·0	1·12·64	1·13·09	1·12·21	1·12·39					1·12·97	1·12·35	1·12·50	1·12·47
58·0	1·12·92	1·12·88	1·12·14	1·12·32					1·12·97	1·12·35	1·12·33	1·12·40

TERM HOUR OBSERVATIONS ON THE 24TH AND 25TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′150	13′150	13′906	14′523	14′351	12′188	11′160	11′639	12′876	13′768	14′728	14′454	13′906
5·0	13·081	13·389	13·940	14·592	14·179					14·317	14·728	14·386	13·974
10·0	13·150	13·355	13·837	14·592	14·179					14·488	14·660	14·386	14·008
15·0	13·219	13·287	14·076	14·592	13·906					14·488	14·728	14·249	14·042
20·0	13·219	13·258	14·042	14·592	13·871					14·523	14·728	14·111	14·042
25·0	13·253	13·253	14·179	14·592	13·562					14·523	14·728	14·042	14·042
30·0	13·389	13·321	14·213	14·660	13·562	10·848	11·846	12·188	13·562	14·557	14·728	14·042	14·042
35·0	13·253	13·426	14·249	14·867	13·493					14·592	14·592	13·906	14·008
40·0	13·219	13·493	14·249	14·936	13·236					14·592	14·592	13·906	13·974
45·0	13·425	13·459	14·592	14·798	12·876					14·626	14·592	13·906	13·940
50·0	13·253	13·768	14·592	14·592	12·583					14·626	14·523	13·906	13·974
55·0	13·219	13·837	14·523	14·523	12·222					14·694	14·454	13·906	13·974

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·530	18·570	18·920	19·000	19·050	19·000	18·910	18·620	18·240	17·900	17·650	17·600	17·755
7·0	18·510	18·545	18·950	19·000	19·050					17·870	17·630	17·620	17·750
12·0	18·515	18·615	18·960	19·000	19·050					17·800	17·600	17·630	17·755
17·0	18·520	18·595	18·970	19·005	19·050					17·785	17·600	17·660	17·780
22·0	18·530	18·605	18·990	19·000	19·050					17·750	17·600	17·680	17·800
27·0	18·485	18·690	19·020	18·985	19·040					17·750	17·600	17·680	17·847
32·0	18·485	18·685	19·020	18·975	19·025	18·960	18·810	18·415	18·090	17·730	17·600	17·650	17·842
37·0	18·530	18·750	19·040	18·955	19·005					17·725	17·600	17·680	17·752
42·0	18·575	18·750	19·040	18·955	19·000					17·700	17·600	17·700	17·750
47·0	18·580	18·830	19·050	18·950	19·000					17·680	17·560	17·740	17·750
52·0	18·585	18·905	19·000	18·950	19·005					17·650	17·590	17·750	17·750
57·0	18·590	18·910	19·010	19·015	19·000					17·640	17·590	17·750	17·730
Therm.	79°9	79°5	80°0	81°5	83°0	84°0	85°0	85°5	86°0	86°0	86°0	84°7	83°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	7·38·10	7·37·90	7·42·10	7·38·60	6·32·35					8·16·60	8·09·60	7·41·40	7·41·40
8·0	7·46·60	7·37·90	7·42·10	7·38·60	6·25·70					8·16·60	8·09·60	7·41·40	8·00·60
13·0	7·46·60	7·37·90	7·42·10	7·38·60	6·25·70					8·22·05	8·05·15	7·41·40	8·00·60
18·0	7·46·60	7·37·90	7·42·10	7·34·00	6·19·00					8·22·05	8·05·15	7·41·40	8·00·60
23·0	8·07·00	7·37·90	7·46·70	7·34·00	6·11·35					8·22·05	7·49·10	7·41·40	8·00·60
28·0	7·49·80	7·37·90	7·46·70	7·28·95	6·04·00	5·33·05	6·33·00	7·24·60	8·10·40	8·22·05	7·49·10	7·41·40	8·00·60
33·0	7·42·40	7·37·90	7·46·70	7·22·75	5·46·15					8·22·05	7·49·10	7·41·40	8·00·60
38·0	7·42·40	7·37·90	7·46·70	7·17·25	5·39·00					8·15·65	7·45·15	7·41·40	8·00·60
43·0	7·42·40	7·37·90	7·46·70	7·11·05	5·28·25					8·15·65	7·45·15	7·41·40	8·00·60
48·0	7·37·90	7·37·90	7·38·60	7·05·00	5·19·20					8·10·85	7·45·15	7·41·40	8·00·60
53·0	7·37·90	7·37·90	7·38·60	6·49·55	5·13·25					8·10·85	7·45·15	7·41·40	8·00·60
58·0	7·37·90	7·42·10	7·38·60	6·42·95	5·13·25	6·15·05	7·03·90	7·46·65	8·16·60	8·10·85	7·41·40	7·41·40	8·00·60
Therm.	81°7	80°4	80°0	80°5	81°0	82°0	82°9	83°5	84°5	85°2	85°3	84°9	84°5

TERM HOUR OBSERVATIONS ON THE 24TH AND 25TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13'42	14'25	14'73	14'57	11'95	11'33	12'26	13'42	14'47	14'93	14'78	14'35
5·0		14·30	14·83	14·14					14·52	14·93	14·57	14·30
10·0	13·68	14·35	14·83	14·14					14·52	14·93	14·47	14·30
15·0	13·78	14·35	14·88	14·09					14·52	14·99	14·47	14·25
20·0	13·83	14·40	14·68	14·09					14·57	14·99	14·47	14·20
25·0	13·83	14·40	14·88	13·99					14·62	15·04	14·47	14·20
30·0	13·88	14·40	14·93	13·73	11·33	11·85	12·90	14·04	14·62	14·52	14·52	14·25
35·0	13·94	14·47	14·93	13·52					14·67	14·52	14·52	13·99
40·0	13·94	14·47	14·93	13·42					14·78	14·52	14·73	13·99
45·0	13·99	14·52	14·93	13·21					14·67	14·57	14·73	14·14
50·0	13·99	14·57	14·93	12·83					14·73	14·93	14·40	14·25
55·0	14·20	14·62	14·93	12·05					14·88	14·93	14·40	14·20

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	10·10	10·38	10·50	10·46	10·50	10·20	9·95	9·58	9·28	9·00	8·98	9·12
7·0		10·38	10·49	10·43					9·22	9·00	9·00	9·10
12·0	10·15	10·39	10·49	10·45					9·17	8·99	8·98	9·15
17·0	10·20	10·40	10·48	10·48					9·11	9·02	8·99	9·18
22·0	10·22	10·40	10·48	10·48					9·05	9·00	8·99	9·18
27·0	10·24	10·40	10·48	10·42					9·02	9·00	9·00	9·19
32·0	10·26	10·40	10·40	10·45	10·35	10·14	9·72	9·39	9·00	9·00	9·02	9·20
37·0	10·30	10·45	10·40	10·48					9·02	9·00	9·00	9·20
42·0	10·32	10·48	10·42	10·44					9·00	9·02	9·10	9·20
47·0	10·30	10·48	10·40	10·48					9·02	9·00	9·08	9·22
52·0	10·35	10·49	10·39	10·50					9·00	8·98	9·12	9·15
57·0	10·32	10·49	10·38	10·50					9·00	9·00	9·10	9·12
Therm.	75°8	75°6	76°0	76°2	78°0	80°0	81°0	81°6	82°0	81°8	80°2	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°10'29	1°10'77	1°12'09	1°11'77	1°09'47	1°09'59	1°09'64	1°09'88	1°10'63	1°10'72	1°10'30	1°10'77
8·0		1·10·80	1·12·16	1·11·75					1·11·18	1·10·72	1·10·24	1·10·83
13·0	1·10·50	1·10·70	1·12·16	1·11·75					1·11·35	1·10·65	1·10·24	1·10·57
18·0	1·10·29	1·10·94	1·12·01	1·10·77					1·11·35	1·10·72	1·10·39	1·10·90
23·0	1·10·25	1·10·90	1·10·87	1·10·73					1·11·38	1·10·72	1·10·25	1·10·90
28·0	1·10·25	1·11·04	1·10·87	1·10·42					1·12·23	1·10·58	1·10·18	1·10·90
33·0	1·10·18	1·11·07	1·10·65	1·10·42	1·09·28	1·10·28	1·09·61	1·10·42	1·12·27	1·10·58	1·10·32	1·10·90
38·0	1·10·29	1·11·96	1·10·86	1·10·49					1·12·30	1·10·44	1·10·18	1·10·87
43·0	1·10·35	1·11·96	1·10·93	1·10·24					1·10·87	1·10·44	1·10·77	1·10·88
48·0	1·10·32	1·12·30	1·10·79	1·10·01					1·10·91	1·10·44	1·10·77	1·10·80
53·0	1·10·63	1·12·30	1·10·73	1·09·67					1·10·62	1·10·37	1·10·77	1·10·83
58·0	1·10·70	1·12·09	1·11·94	1·09·36					1·10·68	1·10·33	1·10·77	1·10·83

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	13·219	12·428	12·944	13·906	13·906	12·533	12·188	13·287	14·936	15·587	14·762	14·042	13·734
5·0	13·425	12·153	12·944	14·249	13·837					15·628	14·660	13·974	13·717
10·0	13·219	12·084	13·219	14·336	13·768					15·553	14·592	13·940	13·717
15·0	13·115	12·601	13·115	14·493	13·562					15·519	14·557	13·940	13·768
20·0	12·978	12·601	13·493	14·454	13·389					15·348	14·523	13·906	13·664
25·0	13·013	12·533	13·734	14·317	13·321					15·280	14·386	13·871	13·768
30·0	12·738	12·772	13·596	14·249	13·219	11·845	12·533	14·042	15·280	15·280	14·351	13·837	13·596
35·0	12·703	12·669	13·493	14·626	13·081					15·280	14·249	13·802	13·802
40·0	12·669	12·703	13·871	14·249	12·876					15·211	14·249	13·871	13·596
45·0	12·360	12·703	14·249	14·008	12·876					15·142	14·249	13·871	13·664
50·0	12·290	12·944	13·734	14·213	12·601					15·074	14·179	13·734	13·459
55·0	12·567	12·840	13·991	13·906	12·533					14·910	14·145	13·768	13·544

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	19·175	19·470	19·775	20·175	20·200	20·150	19·900	19·650	19·420	19·210	19·125	28·990	18·855
7·0	19·160	19·475	19·845	20·210	20·165					19·200	19·110	18·990	18·880
12·0	19·075	19·540	19·905	20·200	20·190					19·190	19·100	19·010	18·865
17·0	19·145	19·500	19·855	20·160	20·200					19·150	19·090	18·990	18·870
22·0	19·230	19·525	19·972	20·160	20·200					19·100	19·050	18·990	18·920
27·0	19·175	19·625	19·980	20·187	20·170					19·100	19·030	18·980	18·990
32·0	19·345	19·610	20·015	20·150	20·150	20·000	19·530	19·550	19·355	19·100	19·000	18·970	18·980
37·0	19·240	19·666	20·050	20·200	20·200					19·090	19·000	18·995	18·975
42·0	19·310	19·680	20·050	20·200	20·160					19·100	19·000	18·890	19·035
47·0	19·300	19·695	20·125	20·150	20·150					19·125	19·000	18·900	18·990
52·0	19·380	19·730	20·140	20·150	20·150					19·100	19·000	18·915	19·020
57·0	19·412	19·690	20·180	20·200	20·150					19·125	19·000	18·880	18·980
Therm.	75°6	74°9	74°4	76°0	77°5	28°9	80°0	80·0	79°8	79°3	79°0	78°0	76°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	7·48·60	8·27·40	9·08·40	9·00·00	8·06·85					9·15·65	8·38·35	8·38·35	8·25·20
8·0	8·06·90	8·27·40	9·12·10	9·00·00	8·00·00					9·13·70	8·38·35	8·38·35	8·29·20
13·0	8·21·90	8·34·00	9·12·10	9·00·00	8·00·00					9·08·05	8·38·35	8·38·35	8·29·20
18·0	8·21·90	8·37·50	9·12·10	8·42·90	7·44·10					9·08·05	8·38·35	8·38·35	8·29·20
23·0	8·27·80	8·43·20	9·12·10	8·42·90	7·43·50					9·03·05	8·38·35	8·38·35	8·29·20
28·0	8·27·80	8·43·20	9·12·10	8·33·00	7·38·55	7·23·60	8·25·60	9·29·25	9·30·75	9·01·60	8·38·35	8·38·35	8·29·20
33·0	8·32·50	9·01·25	9·12·10	8·33·00	7·38·55					9·01·60	8·38·35	8·38·35	8·29·20
38·0	8·32·50	9·01·25	9·12·10	8·25·15	7·32·00					9·01·60	8·38·35	8·38·35	8·37·50
43·0	8·27·20	9·05·10	9·07·05	8·17·95	7·28·30					8·44·60	8·38·35	8·38·35	8·37·50
48·0	8·21·90	9·05·10	9·07·05	8·17·95	7·28·30					8·44·60	8·38·35	8·31·80	8·37·50
53·0	8·16·90	9·08·40	9·07·05	8·11·50	7·28·30					9·38·35	8·38·35	8·31·80	8·49·50
58·0	8·16·90	9·08·40	9·07·05	8·06·85	7·23·60	7·39·35	8·46·80	9·30·75	9·18·65	8·38·35	8·38·35	8·25·20	8·49·50
Therm.	78°5	76°5	75°5	76°0	76°5	77°5	78°4	78°7	78°7	79°0	79°4	78°9	78°4

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	12′83	13′42	14′25	14′30	12′63	12′37	13′52	14′94	15′97	15′19	14′47	14′40
5·0	12·83	13·42	14·35	14·14					15·97	14·99	14·47	14·40
10·0	12.78	13·52	14·47	13·94					15·97	14·99	14·47	14·30
15·0	12·83	13·52	14·52	13·68					15·92	14·98	14·47	14·25
20·0	12·90	13·57	14·57	13·57					15·92	14·88	14·47	14·30
25·0	12·95	13·68	14·57	13·47					15·82	14·78	14·47	14·30
30·0	13.10	13·88	14·62	13·42		12·90	14·47	15·61	15·77	14·73	14·47	14·25
35·0	13·21	13·99	14·62	13·47					15·61	14·57	14·47	14·25
40·0	13·31	14·04	14·57	13·36					15·56	14·47	14·47	14·09
45·0	13·36	14·20	14·40	13·31					15·51	14·47	14·47	14·14
50·0	13·36	14·20	14·20	12·95					15·45	14·47	14·47	14·04
55·0	13·36	14·25	14·25	12·83					15·40	14·52	14·47	14·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	10·00	10.14	10·30	10.34	10·30	10·05	9·90	9·60	9·20	9·02	8·80	8·90
7·0	10·00	10·12	10·35	10·39					9·18	9·00	8·85	8·88
12·0	10·00	10·18	10·32	10·35					9·20	9·00	8·90	8·95
17·0	10·00	10·18	10·30	10·34					9·20	8·99	8·82	8·90
22·0	10·00	10·20	10·30	10·35					9·15	8·97	8·95	8·92
27·0	10·05	10·24	10·35	10·30					9·10	8·95	8·90	8·97
32·0	10·02	10·29	10·37	10·37	10·10	9·95	9·97	9·45	9·08	8·90	8·90	8·98
37·0	10·08	10·29	10·38	10·38					9·00	8·88	8·94	8·98
42·0	10·10	10·30	10·36	10·36					9·05	8·90	8·90	8·99
47·0	10·10	10·30	10·38	10·35					9·08	8·90	8·88	9·00
52·0	10·10	10·32	10·35	10·30					9·02	8·85	8·92	9·00
57·0	10·12	10·30	10·32	10·30					9·05	8·80	8·90	9·00
Therm.	68°2	68°2	70°2	71°8	72°2	74°0	74°5	74°6	74°0	73°8	73°8	72°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3.0	1°10′36	1°11′52	1°12′20	1°12′20	1°11′25	1°11′34	1°11′72	1°12′65	1°12′73	1°11′90	1°12′47	1°12′16
8·0	1·10·58	1·11·52	1·12·54	1·12·13					1·12·76	1·12·95	1·12·40	1·12·15
13·0	1·10·51	1·11·80	1·12·53	1·12·06					1·12·83	1·12·88	1·12·37	1·12·15
18·0	1·11·18	1·11·55	1·12·63	1·11·85					1·12·80	1·12·85	1·12·37	1·12·20
23·0	1·11·18	1·11·92	1·12·45	1·11·68					1·12·63	1·12·81	1·12·34	1·12·09
28·0	1·11·11	1·12·16	1·12·17	1·11·75					1·12·70	1·12·68	1·12·30	1·12·20
33·0	1·11·35	1·11·89	1·12·10	1·11·65	1·11·72	1·11·54	1·12·18	1·12·70	1·12·70	1·12·64	1·12·27	1·12·03
38·0	1·11·25	1·11·78	1·12·63	1·11·51					1·12·70	1·12·54	1·12·23	1·12·23
43·0	1·11·28	1·12·16	1·12·39	1·11·31					1·12·63	1·12·68	1·12·16	1·12·03
48·0	1·11·28	1·12·54	1·12·15	1·11·46					1·12·56	1·12·68	1·12·16	1·12·09
53·0	1·11·52	1·12·16	1·12·36	1·11·18					1·12·49	1·12·61	1·12·02	1·12·04
58·0	1·11·42	1·12·28	1·12·20	1·11·11					1·12·05	1·12·58	1·12·20	1·12·12

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH JANUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·317	14·042	14·213	14·317	14·420	13·219	12·806	13·450	14·592	14·936	13·527	13·562	13·389
5·0	14·488	14·145	14·351	14·386	14·523					14·762	13·527	13·459	13·425
10·0	14·592	14·283	14·213	14·249	14·523					14·694	13·527	13·493	13·493
15·0	14·523	14·111	14·351	14·592	14·283					14·592	13·459	13·425	13·613
20·0	14·386	14·179	14·179	14·592	14·076					14·454	13·459	13·356	13·768
25·0	14·454	14·249	14·179	14·592	14·076					14·317	13·355	13·355	13·768
30·0	14·454	14·300	14·249	14·420	14·145	12·840	12·806	13·664	15·004	14·219	13·219	13·355	13·906
35·0	14·386	14·386	14·249	14·420	13·940					14·179	13·219	13·287	13·906
40·0	14·420	14·523	14·145	14·592	13·906					14·076	13·562	13·287	13·906
45·0	14·249	14·420	14·249	14·592	13·802					14·042	13·562	13·425	13·871
50·0	14·145	14·420	14·213	14·523	13·906					13·837	13·493	12·287	13·837
55·0	14·042	14·317	14·420	14·386	13·562					13·768	13·493	13·355	13·906

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·150	20·210	20·190	20·450	20·500	20·525	19·950	19·380	18·960	18·810	18·640	18·190	18·160
7·0	20·155	20·220	20·180	20·500	20·535					18·835	18·620	18·195	18·190
12·0	20·120	20·305	20·210	20·500	20·595					18·805	18·600	18·180	18·160
17·0	20·150	20·370	20·165	20·500	20·650					18·800	18·590	18·190	18·160
22·0	20·150	20·280	20·225	20·500	20·700					18·750	18·555	18·210	18·160
27·0	20·150	20·320	20·255	20·500	20·710					18·730	18·500	18·230	18·190
32·0	20·055	20·275	20·315	20·460	20·700	20·250	19·675	19·130	18·890	18·740	18·420	18·240	18·190
37·0	20·010	20·245	20·300	20·450	20·660					18·875	18·370	18·240	18·070
42·0	20·065	20·242	20·380	20·460	20·600					18·800	18·280	18·230	18·000
47·0	20·095	20·175	20·375	20·490	20·550					18·740	18·220	18·215	18·040
52·0	20·155	20·200	20·385	20·500	20·540					18·700	18·200	18·205	18·000
57·0	20·185	20·220	20·450	20·500	20·505					18·690	18·190	18·190	18·010
Therm.	71°9	71°9	72°0	72°8	74°5	76°9	77°9	78°9	79°5	79°9	79°9	79°2	78°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	9·40·30	9·12·10	9·07·60	8·48·05	8·28·50					8·41·20	8·10·80	8·10·80	8·38·50
8·0	9·46·60	9·12·10	9·07·60	8·42·10	8·23·95					8·34·25	8·10·80	8·19·60	8·44·20
13·0	9·43·40	9·07·60	9·07·60	8·42·10	8·23·95					8·31·25	8·10·80	8·19·60	9·02·70
18·0	10·01·60	9·07·60	9·07·60	8·42·10	8·14·70					8·25·85	8·10·80	8·19·60	9·02·70
23·0	10·01·60	9·07·60	9·07·60	8·42·10	8·07·70					8·25·85	8·10·80	8·19·60	9·06·80
28·0	10·01·60	9·07·60	9·07·60	8·42·10	8·07·77	8·00·00	8·26·45	9·01·45	9·12·30	8·25·85	8·10·80	8·19·60	9·06·80
33·0	10·01·60	9·07·60	9·03·50	8·42·10	8·07·70					8·20·60	8·10·80	8·19·60	9·11·80
38·0	9·41·70	9·07·60	9·03·50	8·40·60	8·07·70					8·20·60	8·10·80	8·19·60	9·22·00
43·0	9·41·70	9·07·60	9·03·50	8·40·60	8·02·50					8·15·45	8·10·80	8·19·60	9·27·50
48·0	9·33·30	9·07·60	8·48·05	8·35·50	8·02·50					8·15·45	8·10·80	8·30·80	9·32·90
53·0	9·26·20	9·07·60	8·48·05	8·35·50	7·45·35					8·10·80	8·10·80	8·30·80	9·40·90
58·0	9·17·00	9·07·60	8·48·05	8·35·50	7·45·35	8·18·35	8·35·90	9·17·55	8·41·20	8·10·80	8·10·80	8·38·50	9·48·40
Therm.	74°5	73°4	72°7	72°8	73°5	74°5	76°0	77°0	77°7	78°7	79°5	79°5	78°9

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH JANUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14′47	14′57	14′52	14′62	13′83	12′90	13′52	14′99	14′99	14′04	13′88	13′47
5·0	14·47	14·57	14·57	14·52					14·99	13·99	13·88	13·42
10·0	14·47	14·47	14·57	14·52					14·99	13·99	13·88	13·42
15·0	14·47	14·47	14·57	14·67					14·93	13·99	13·88	13·42
20·0	14·62	14·47	14·52	14·47					14·88	13·88	13·78	13·68
25·0	14·62	14·47	14·52	14·40					14·83	13·88	13·78	13·83
30·0	14·62	14·47	14·52	14·40	13·16	13·16	14·04	15·40	14·83	13·83	13·57	13·83
35·0	14·68	14·47	14·62	14·40					14·62	13·88	13·42	13·99
40·0	14·62	14·47	14·73	14·35					14·52	13·88	13·47	13·99
45·0	14·62	14·47	14·73	14·25					14·40	13·88	13·47	13·99
50·0	14·62	14·47	14·73	14·14					14·40	13·88	13·47	14·04
55·0	14·57	14·47	14·73	13·99					14·25	13·88	13·42	14·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	8·98	8·80	8·82	8·90	8·91	8·50	8·060	7·700	7·70	7·70	7·24	7·20
7·0	9·00	8·79	8·82	8·95					7·75	7·74	7·22	7·20
12·0	9·05	8·79	8·88	8·99					7·72	7·68	7·19	7·22
17·0	9·02	8·79	8·90	9·05					7·74	7·66	7·14	7·15
22·0	9·00	8·76	8·88	9·12					7·75	7·60	7·20	7·19
27·0	9·00	8·80	8·81	9·15					7·70	7·56	7·22	7·22
32·0	8·99	8·82	8·80	9·12	8·68	8·20	7·890	7·720	7·75	7·50	7·30	7·15
37·0	8·90	8·80	8·80	9·09					7·78	7·48	7·31	7·09
42·0	8·90	8·84	8·87	9·02					7·80	7·40	7·24	7·00
47·0	8·88	8·85	8·88	8·99					7·76	7·32	7·29	7·05
52·0	8·85	8·85	8·88	8·94					7·78	7·29	7·26	6·99
57·0	8·87	8·82	8·88	8·90					7·72	7·22	7·20	6·98
Therm.	66°4	66°2	67°4	68°0	69°8	72°0	73°2	74°6	75°4	75°8	75°8	74°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°13′77	1°14′08	1°14′48	1°14′29	1°14′10	1°14′12	1°14′46	1°15′18	1°14′95	1°13′69	1°13′86	1°13′69
8·0	1·13·88	1·14·22	1·14·54	1·14·39					1·14·78	1·14·12	1·13·76	1·13·73
13·0	1·14·01	1·14·05	1·14·27	1·14·39					1·14·71	1·14·12	1·13·79	1·13·79
18·0	1·13·84	1·14·37	1·14·61	1·14·15					1·14·75	1·14·05	1·13·73	1·13·91
23·0	1·14·05	1·14·20	1·14·61	1·14·10					1·14·61	1·14·05	1·13·66	1·14·07
28·0	1·14·12	1·14·20	1·14·61	1·14·37					1·14·48	1·13·95	1·13·66	1·13·93
33·0	1·14·17	1·14·27	1·14·44	1·14·60	1·14·29	1·14·12	1·14·54	1·15·02	1·14·38	1·13·81	1·13·66	1·14·07
38·0	1·14·26	1·14·27	1·14·44	1·14·39					1·14·34	1·13·55	1·13·59	1·14·07
43·0	1·14·39	1·14·16	1·14·61	1·14·36					1·14·24	1·13·86	1·13·59	1·14·07
48·0	1·14·29	1·14·27	1·14·46	1·14·25					1·14·20	1·13·86	1·13·73	1·14·03
53·0	1·14·49	1·14·23	1·14·39	1·14·50					1·14·00	1·14·08	1·13·59	1·14·03
58·0	1·14·19	1·14·58	1·14·25	1·14·15					1·13·90	1·13·79	1·13·66	1·14·07

TERM HOUR OBSERVATIONS ON THE 31ST JANUARY AND 1ST FEBRUARY, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′557	14′249	13′459	13′562	13′906	13′562	14′076	15′038	16′515	16′653	15′966	14′592	13′769
5·0	14·557	14·111	13·630	13·700	13·906					16·789	15·966	14·592	13·768
10·0	14·557	14·111	13·562	13·562	13·906					16·789	15·828	14·523	13·768
15·0	14·636	14·076	13·493	13·562	13·906					16·653	15·623	14·386	13·903
20·0	14·351	13·974	13·355	13·562	13·906					16·515	15·519	14·317	13·903
25·0	14·523	14·042	13·287	13·562	13·906					16·515	15·280	14·386	13·903
30·0	14·351	14·111	13·287	13·637	13·268	13·630	14·592	15·760	16·721	16·515	15·211	14·249	13·903
35·0	14·386	13·700	13·425	13·906	13·630					16·309	15·211	14·111	14·249
40·0	14·386	13·906	13·287	13·906	13·562					16·378	15·004	14·111	14·454
45·0	14·283	13·768	13·493	13·906	13·562					16·102	14·936	13·974	14·592
50·0	14·179	13·493	13·562	13·906	13·630					15·940	14·867	13·837	14·592
55·0	14·249	13·700	13·630	13·906	13·802					15·897	14·592	13·768	14·523

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17 h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·875	18·980	19·230	19·300	19·200	19·140	18·775	18·450	18·385	18·200	18·100	18·180	18·270
7·0	18·915	18·920	19·375	19·400	19·150					18·135	18·130	18·150	18·380
12·0	18·875	18·900	19·350	19·400	19·150					18·140	18·125	18·130	18·380
17·0	18·945	18·910	19·380	19·400	19·150					18·125	18·120	18·160	18·330
22·0	18·885	18·900	19·380	19·400	19·150					18·115	17·920	18·160	18·220
27·0	18·980	19·025	19·355	19·375	19·150					18·120	17·900	18·170	18·190
32·0	18·985	19·140	19·350	19·350	19·130	18·975	18·600	18·410	18·200	18·100	17·900	18·200	18·170
37·0	19·030	19·300	19·390	19·300	19·150					18·075	17·900	18·200	18·250
42·0	19·050	19·300	19·405	19·200	19·150					18·000	16·000	18·220	18·280
47·0	19·072	19·450	19·350	19·250	19·150					17·995	17·980	18·160	18·280
52·0	18·975	19·360	19·350	19·200	19·150					18·000	18·00	18·180	18·180
57·0	18·975	19·290	19·340	19·250	19·150					18·125	18·170	18·270	18·050
Therm.	69°6	69°6	70°3	72°7	74°0	75°4	76°8	77°4	78°0	78°6	79°0	78°6	77°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	7·41·20	8·33·70	8·38·80	8·35·30	8·31·50					9·05·60	8·20·80	7·44·50	8·06·50
8·0	7·41·20	8·33·70	8·30·50	8·35·30	8·31·50					8·48·35	8·20·80	7·44·50	8·07·00
13·0	8·35·40	8·38·90	8·30·50	8·35·30	8·31 50					8·48·35	8·20·80	7·44·50	8·13·50
18·0	8·35·40	8·38·90	8·30·50	8·35·30	8·31·50					9·07·20	8·20·80	7·44·50	8·16·00
23·0	8·35·40	8·38·90	8·30·50	8·39·15	8·31·50					9·07.20	8·13.15	7·44·50	8·18·50
28·0	8·29·70	8·38·90	8·35·30	8·39.15	8·31·50	8·39·10	9·00·00	9·12·00	9·11·95	9·01·30	8·02.10	7·46·00	8·18·50
33·0	8·29·70	8·38·90	8·35·30	8·39·15	8·31·50					9·01·30	8·04.00	8·01·00	8·22·50
38·0	8·29·70	8·30.00	8·35·30	8·39·15	8·27·90					9·01·30	8·00·00	8·01·00	8·23·50
43·0	8·29·70	8·35·00	8·35·30	8·19·20	8·27·90					8·44·10	8·00·00	8·01·00	8·25·50
48·0	8·29·70	8·35·00	8·35·30	8·39·25	8·27·90					8·44·10	8·00·00	8·01·00	8·25·50
53·0	8·33·70	8·35·00	8·35·30	8·39·25	8·27·90	9.00·00				8·44·10	8·00.0	8·05·00	8·25·50
58·0	8·33·70	8·38·80	8·35·30	8·31·50	8·27·60		9·00·0	9·11·95	9·05·60	8·31·75	7·39·50	8·06·50	8·25·50
Therm.	72°0	70°0	70°1	71°4	72°5	73°8	76°8	75°7	76°9	78°0	79°0	78°0	77°5

TERM HOUR OBSERVATIONS ON THE 31ST JANUARY AND 1ST FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0		13′99	14′09	14′40	14′20	13′42	14′52	15′87	16′04	15′40	13′94	13′36
5·0	14′78	13·94	14·20	14·40					16·04	15·40	13·94	13·36
10·0	14·73	13·94	14·30	14·40					16·04	15·14	13·88	13·36
15·0	14·73	13·94	14·35	14·40					16·04	14·99	13·88	13·30
20·0	14·73	13·88	14·35	14·35					16·04	14·99	13·68	13·42
25·0	14·62	13·94	14·35	14·35					15·92	14·99	13·52	13·42
30·0	14·62	13·94	14·35	14·30		13·94	15·25	16·04	15·92	14·78	13·47	13·42
35·0	14·47	13·94	14·40	14·30					15·92	14·78	13·47	13·42
40·0	14·40	13·94	14·40	14·25					15·87	14·47	13·42	13·47
45·0	14·30	13·99	14·40	14·25					15·45	14·40	13·42	13·78
50·0	14·09	14·09	14·40	14·25					15·45	14·40	13·42	13·88
55·0	14·09	14·09	14·40	14·14					15·40	14·35	13·42	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0		6·900	7·190	6·980	6·860	6·450	6·200	6·200	6·200	6·300	6·550	6·900
7·0	6·60	6·980	7·200	6·900					6·250	6·320	6·560	6·940
12·0	6·65	7·000	7·200	6·900					6·250	6·400	6·600	6·970
17·0	6·62	6·990	7·200	6·820					6·220	6·450	6·590	6·990
22·0	6·68	6·990	7·200	6·800					6·250	6·490	6·640	6·780
27·0	6·68	6·960	7·200	6,850					6·280	6·390	6·700	6·740
32·0	6·74	6·980	7·130	6·880	6·700	6·300	6·210	6·250	6·280	6·320	6·690	6·830
37·0	6·82	7·000	7·100	6·890					6·290	6·320	6·720	6·900
42·0	6·90	7·020	7·000	6·890					6·310	6·380	6·750	7·120
47·0	7·09	7·000	6·900	6·900					6·220	6·400	6·770	7·210
52·0	7·20	7·080	6·900	6·850					6·220	6·410	6·780	7·250
57·0	7·00	7·020	6·950	6·880					6·280	6·490	6·840	7·200
Therm.	64°3	64°2	66°2	68°0	69°8	72°0	73°0	74°0	74°0	73°8	74°0	73°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0		1°38′19	1°38′15	1°38′80	1°38′29	1°38′53	1°38′91	1°39′38	1°39′08	1°38′83	1°38′03	1°38′07
8·0	1·38·41	1·38·36	1·38·43	1·38·80					1·39·22	1·38·83	1·38·03	1·38·07
13·0	1·38·41	1·38·87	1·38·15	1·38·50					1·39·36	1·38·69	1·37·96	1·37·93
18·0	1·38·38	1·38·80	1·38·15	1·38·50					1·39·22	1·38·48	1·37·88	1·38·06
23·0	1·38·27	1·38·80	1·38·15	1·38·50					1·39·09	1·38·38	1·38·04	1·38·06
28·0	1·38·34	1·38·74	1·38·15	1·38·50					1·39·09	1·38·29	1·38·10	1·38·06
33·0	1·38·41	1·38·74	1·38·43	1·38·36	1·38·58	1·39·29	1·38·91	1·39·15	1·39·09	1·38·22	1·38·41	1·37·77
38·0	1·38·00	1·38·87	1·38·50	1·38·22					1·38·88	1·38·36	1·38·27	1·38·12
43·0	1·38·21	1·38·74	1·38·50	1·38·15					1·38·95	1·38·15	1·38·27	1·37·60
48·0	1·38·07	1·38·94	1·38·50	1·38·15					1·38·96	1·38·09	1·38·13	1·37·74
53·0	1·37·79	1·39·01	1·38·50	1·38·22					1·38·80	1·38·31	1·38·00	1·37·74
58·0	1·38·43	1·39·08	1·38·50	1·38·39					1·38·76	1·38·43	1·38·07	1·37·67

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'940	13'871	13'906	14'249	13'906	13'974	14'592	14'660	15'245	15'416	14'523	13'802	13'940
5·0	13·837	14·008	14·317	14·351	13·974					15·280	14·488	13·700	13·940
10·0	13·837	13·802	14·317	14·145	14·076					15·348	14·386	13·630	13·974
15·0	13·802	13·837	14·249	14·288	13·940					15·416	14·386	13·630	13·974
20·0	14·111	13·768	14·111	13·906	14·249					15·348	14·213	13·630	14·008
25·0	13·940	13·802	14·249	14·213	13·906					15·280	14·111	13·630	14·111
30·0	14·317	13·700	14·420	14·249	13·940	14·592	14·592	14·936	15·314	15·245	13·974	13·389	14·179
35·0	14·145	13·906	13·974	13·906	14·076					15·004	14·042	13·425	14·179
40·0	14·008	13·906	14·249	13·940	13·906					14·936	14·008	13·630	14·145
45·0	13·838	14·249	14·592	14·179	14·111					14·867	13·974	13·700	14·249
50·0	13·700	14·111	14·317	14·249	14·249					14·592	13·906	13·630	14·249
55·0	14·076	14·283	14·283	14·249	14·076					14·592	13·837	13·630	14·249

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	21·000	21·280	21·525	21·750	21·900	21·850	21·550	21·050	20·550	20·150	19·890	19·710	19·800
7·0	20·950	21·320	21·480	21·750	21·950					20·100	19·880	19·715	19·805
12·0	21·020	21·245	21·550	21·750	21·950					20·100	19·850	19·722	19·800
17·0	21·020	21·315	21·520	21·775	21·900					20·045	19·800	19·705	19·800
22·0	21·075	21·375	21·610	21·800	21·910					20·000	19·800	19·700	19·790
27·0	21·000	21·310	21·530	21·800	21·950					19·950	19·800	19·690	19·760
32·0	21·030	21·355	21·575	21·800	21·890	21·700	21·300	20·765	20·330	19·925	19·790	19·700	19·720
37·0	21·180	21·420	21·540	21·800	21·900					19·915	19·790	19·740	19·710
42·0	21·225	21·455	21·625	21·850	21·850					19·915	19·780	19·760	19·700
47·0	21·285	21·405	21·750	21·850	21·900					19·900	19·790	19·780	19·705
52·0	21·275	21·380	21·800	21·900	21·950					19·900	19·770	19·780	19·710
57·0	21·245	21·350	21·800	21·900	21·900					19·890	19·735	19·795	19·710
Therm.	62°6	61°9	61°7	63°4	66°0	68°0	69°5	71°0	71°5	72°3	72°9	72°0	71°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	f d	t d	t d
M. S.													
3·0	11·18·70	10·45·30	11·03·80	10·33·10	10·18·65					10·20·50	9·34·85	9·26·60	9·32·20
8·0	11·18·70	10·45·30	11·02·70	10·33·10	10·15·00					10·20·50	9·32·25	9·26·60	9·32·20
13·0	11·18·70	10·45·30	11·02·70	10·33·10	10·15·00					10·20·50	9·32·25	9·26·60	9·42·40
18·0	11·18·70	10·45·30	11·02·70	10·33·10	10·15·00					10·14·80	9·32·25	9·32·30	9·42·40
23·0	11·09·50	10·48·40	11·47·50	10·27·60	10·15·00					10·14·80	9·32·25	9·32·30	10·04·00
28·0	11·04·60	10·48·40	10·47·50	10·27·60	10·15·00	10·23·70	11·08·75	11·01·70	10·31·05	10·06·10	9·26·60	9·32·30	10·04·00
33·0	11·04·60	11·08·10	10·47·50	10·27·60	10·05·00					10·06·10	9·26·60	9·32·30	10·04·00
38·0	11·04·60	11·06·20	10·41·80	10·27·60	10·17·50					9·46·70	9·26·60	9·32·30	10·09·20
43·0	10·49·40	11·06·20	10·41·80	10·27·60	10·09·20					9·46·70	9·26·60	9·32·30	10·25·30
48·0	10·49·40	11·05·10	10·33·10	10·23·10	10·09·20	( )				9·41·80	9·26·60	9·32·20	10·25·30
53·0	10·49·40	11·03·80	10·33·10	10·18·65	10·09·20					9·41·80	9·26·60	9·32·20	10·25·30
58·0	10·45·30	11·03·80	10·33·10	10·18·65	10·09·20	10 ·32.65	11·08·75	10·41·10	10·25·80	9·34·85	9·26·60	9·32·20	10·25·30
Therm.	65°9	63°8	63°0	63°2	64°5	66°0	67°5	68°8	70°0	71°2	72°2	72°4	72°8

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′31	13′42	13′26	13′36	13′42	13′65	14′04	14′57	14′73	13′94	13′05	13′31
5·0	13·31	13·42	13·26	13·36					14·88	13·94	12·90	13·36
10·0	13·31	13·42	13·21	13·21					14·88	13·88	12·95	13·36
15·0	13·31	13·42	13·26	13·16					14·88	13·88	12·90	13·42
20·0	13·31	13·36	13·26	13·36					14·88	13·83	12·83	13·42
25·0	13·31	13·36	13·26	13·36					14·67	13·57	12·83	13·42
30·0	13·31	13·36	13·31	13·36	13·68	13·94	14·47	14·67	14·67	13·42	12·90	13·47
35·0	13·31	13·36	13·26	13·42					14·47	13·42	12·90	13·47
40·0	13·36	13·31	13·31	13·42					14·40	13·42	13·00	13·52
45·0	13·36	13·31	13·31	13·42					14·40	13·36	12·95	13·47
50·0	13·36	13·31	13·31	13·36					14·30	13·26	12·95	13·42
55·0	13·36	13·26	13·36	13·36					13·99	13·26	13·16	13·42

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	7·79	7·800	7·780	7·790	7·880	7·550	7·120	9·615	6·350	6·290	6·310	6·500
7·0	7·80	7·750	7·780	7·790					6·350	6·300	6·360	6·550
12·0	7·84	7·700	7·770	7·800					6·300	6·290	6·400	6·680
17·0	7·84	7·720	7·780	7·850					6·300	6·260	6·350	6·590
22·0	7·80	7·790	7·780	7·850					6·320	6·250	6·300	6·550
27·0	7·80	7·790	7·750	7·810					6·280	6·290	6·320	6·570
32·0	7·80	7·790	7·740	7·800	7·550	7·350	6·900	6·430	6·260	6·300	6·350	6·540
37·0	7·80	7·780	7·740	7·800					6·240	6·290	6·330	6·520
42·0	7·80	7·780	7·760	7·790					6·210	6·300	6·440	6·550
47·0	7·82	7·780	7·780	7·790					6·230	6·310	6·430	6·500
52·0	7·78	7·800	7·790	7·850					6·240	6·340	6·460	6·490
57·0	7·80	7·780	7·780	7·880					6·290	6·300	6·480	6·560
Therm.	54°0	55°6	56°2	59°8	62°0	64°4	66°5	68°0	69°4	70°0	70°0	68°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°39′61	1°39′65	1°39′99	1°39′65	1°39′71	1°40′26	1°39′82	1°40′03	1°40′01	1°39′25	1°39′25	1°39′44
8·0	1·39·75	1·40·06	1·40·09	1·39·71					1·39·87	1·39·22	1·39·30	1·39·10
13·0	1·39·54	1·40·06	1·39·89	1·39·82					1·39·80	1·39·12	1·39·23	1·39·13
18·0	1·39·58	1·39·99	1·40·02	1·39·68					1·39·87	1·39·12	1·39·23	1·38·99
23·0	1·39·51	1·39·85	1·39·79	1·39·99					1·39·80	1·39·09	1·39·08	1·38·89
28·0	1·39·54	1·39·99	1·40·09	1·39·65					1·39·87	1·38·99	1·39·08	1·38·99
33·0	1·39·44	1·40·16	1·40·27	1·39·68	1·40·33	1·40·19	1·39·96	1·39·90	1·39·84	1·38·85	1·38·84	1·39·06
38·0	1·39·65	1·39·71	1·39·93	1·39·82					1·39·59	1·38·92	1·38·88	1·39·06
43·0	1·39·65	1·39·99	1·39·96	1·39·65					1·39·53	1·38·89	1·39·08	1·38·88
48·0	1·39·99	1·40·33	1·40·20	1·39·85					1·39·46	1·39·28	1·39·15	1·38·93
53·0	1·39·85	1·40·06	1·40·27	1·39·99					1·39·32	1·39·36	1·39·08	1·38·98
58·0	1·39·02	1·40·02	1·40·27	1·39·82					1·39·32	1·39·29	1·39·08	1·38·98

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14′249	14′528	14′179	13′768	12′533	12′188	12′533	13′734	14′592	14′660	14′317	13′837	13′974
5·0	14·249	14·592	14·179	13·662	12·635					14·592	14·317	13·837	13·974
10·0	14·229	14·592	14·042	13·321	12·533					14·592	14·249	13·837	14·128
15·0	14·249	14·557	13·974	13·219	12·533					14·592	14·145	13·802	14·145
20·0	14·317	14·557	13·974	13·219	12·256					14·592	14·179	13·768	13·906
25·0	14·386	14·528	13·974	13·150	12·188					14·592	14·111	13·768	14·179
30·0	14·528	14·528	13·940	13·047	12·188	12·533	12·876	14·249	14·609	14·592	14·042	13·768	14·179
35·0	14·454	14·528	13·940	12·978	12·084					14·592	13·906	13·768	14·213
40·0	14·454	14·488	13·906	12·772	12·188					14·592	13·906	13·802	14·249
45·0	14·454	14·488	13·906	12·703	12·188					14·454	13·974	13·802	14·249
50·0	14·528	14·317	13·906	12·601	12·256					14·386	13·974	13·837	14·249
55·0	14·528	14·317	13·906	12·533	12·188					14·386	13·906	13·837	14·249

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	19·780	19·830	19·890	19·800	19·700	19·650	19·325	18·970	18·705	18·350	18·175	18·250	18·450
7·0	19·790	19·860	19·890	19·790	19·710					18·340	18·175	18·250	18·450
12·0	19·790	19·880	19·890	19·790	19·715					18·340	18·180	18·260	18·460
17·0	19·785	19·880	19·880	19·745	19·710					18·300	18·180	18·270	18·460
22·0	19·770	19·890	19·880	19·745	19·680					18·285	18·190	18·290	18·480
27·0	19·750	19·890	19·850	19·725	19·750					18·270	18·175	18·300	18·490
32·0	19·750	19·890	19·825	19·710	19·750	19·500	19·100	18·835	18·550	18·260	18·190	18·320	18·500
37·0	19·750	19·885	19·840	19·700	19·680					18·240	18·200	18·370	18·500
42·0	19·780	19·890	19·800	19·700	19·660					18·210	18·210	18·380	18·500
47·0	19·780	19·890	19·800	19·710	19·650					18·200	18·220	18·400	18·505
52·0	19·780	19·890	19·800	19·700	19·650					18·200	18·230	18·410	18·510
57·0	19·800	19·895	19·800	19·700	19·650					18·177	18·245	18·440	18·510
Therm.	73°0	73°0	74°0	76°2	78°5	80°0	82°0	82°1	82°5	83°0	83°0	81°8	80°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	10·40·10	10·18·80	10·02·00	8·43·10	8·11·00	8·11·30				9·04·80	8·49·60	8·39·20	9·10·20
8·0	10·44·10	10·13·80	9·45·60	8·43·10	8·11·00					9·04·80	8·49·60	8·39·20	9·14·20
13·0	10·44·10	10·13·80	9·45·60	8·30·30	8·01·75					9·04·80	8·49·60	8·43·40	9·14·20
18·0	10·44·10	10·10·00	9·39·00	8·30·30	8·01·75					9·04·80	8·49·60	8·43·40	9·14·20
23·0	11·01·60	10·10·00	9·35·60	8·22·70	8·02·30					9·04·80	8·38·60	8·43·40	9·16·80
28·0	11·01·60	10·10·00	9·35·60	8·22·70	8·00·55	8·11·30	8·38·40	8·49·50	9·04·80	8·49·65	8·38·60	9·02·00	9·16·80
33·0	10·43·40	10·10·00	9·26·60	8·22·70	8·00·55					8·49·65	8·38·60	8·02·00	9·16·80
38·0	10·39·50	10·07·10	9·26·60	8·17·40	8·00·55					8·49·65	8·39·20	9·07·20	9·16·80
43·0	10·34·50	10·07·10	9·17·60	8·17·40	8·00·55					8·49·65	8·39·20	9·07·20	9·16·80
48·0	10·29·50	10·07·10	9·11·40	8·17·40	8·00·55					8·49·65	8·39·20	9·07·20	9·16·80
53·0	10·24·00	10·07·10	9·11·40	8·17·40	8·00·55					8·49·65	8·39·20	9·07·20	9·16·80
58·0	10·18·80	10·02·00	9·01·00	8·11·00	8·05·00	8·18·00	8·49·50	8·49·50	9·04·80	8·42·90	8·39·20	9·10·20	9·16·80
Therm.	75°4	74°4	74°0	75°3	76°6	78°2	79°7	80°1	80°7	81°7	82°0	81°7	81°0

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′52	13′47	13′16	11′79	11′59	11′85	13′42	14′59	14′14	13′88	13′16	13′05
5·0	13·52	13·47	12·95	11·79					14·20	13·78	13·05	13·21
10·0	13·52	13·47	12·88	11·79					14·20	13·73	12·95	13·21
15·0	13·57	13·42	12·78	11·74					14·14	13·73	12·95	13·26
20·0	13·52	13·42	12·78	11·74					13·99	13·62	12·90	13·36
25·0	13·47	13·42	12·78	11·69					14·04	13·47	12·90	13·36
30·0	13·47	13·42	12·47	11·69	12·11	12·37	13·68	13·94	13·04	13·47	12·90	13·36
35·0	13·47	13·42	12·31	11·69					13·99	13·42	12·90	13·42
40·0	13·47	13·42	12·26	11·64					13·99	13·42	12·83	13·42
45·0	13·52	13·42	12·21	11·43					13·99	13·36	12·83	13·42
50·0	13·52	13·31	12·21	11·48					13·99	13·31	12·90	13·47
55·0	13·52	13·21	12·05	11·64					13·88	13·16	12·90	13·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	6·700	6·680	6·590	6·750	6·690	6·400	6·350	6·250	6·190	6·240	6·510	6·750
7·0	6·690	6·700	6·640	6·780					6·190	6·260	6·540	6·790
12·0	6·720	6·720	6·680	6·750					6·200	6·290	6·520	6·810
17·0	6·700	6·790	6·720	6·750					6·140	6·300	6·500	6·850
22·0	6·650	6·840	6·780	6·700					6·150	6·300	6·560	6·890
27·0	6·710	6·870	6·720	6·760					6·110	6·310	6·590	6·850
32·0	6·700	6·880	6·770	6·800	6·350	6·550	6·350	6·200	6·100	6·340	6·620	6·880
37·0	6·680	6·790	6·770	6·820					6·100	6·310	6·670	6·900
42·0	6·690	6·710	6·800	6·780					6·140	6·370	6·700	6·890
47·0	6·680	6·680	6·740	6·730					6·150	6·390	6·730	6·890
52·0	6·650	6·610	6·760	6·700					6·140	9·440	6·700	6·900
57·0	6·680	6·590	6·780	6·680					6·200	6·500	6·710	6·900
Therm.	71°5	72°0	73°8	76°0	78°2	80°0	80°8	81°2	81°5	80°2	80°2	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°39′25	1°39′06	1°39′22	1°38′41	1°37′35	1°38′27	1°38′50	1°38′60	1°38′67	1°38′38	1°38′14	1°38′27
8·0	1·39·32	1·39·06	1·39·01	1·38·51					1·38·60	1·38·33	1·38·14	1·38·27
13·0	1·39·32	1·38·77	1·38·77	1·38·41					1·38·60	1·38·26	1·38·14	1·38·29
18·0	1·39·15	1·38·70	1·38·67	1·38·41					1·38·60	1·38·15	1·38·10	1·38·31
23·0	1·39·15	1·38·70	1·38·67	1·38·14					1·38·60	1·38·19	1·38·07	1·37·92
28·0	1·39·11	1·38·56	1·38·60	1·38·21					1·38·60	1·38·12	1·38·06	1·38·19
33·0	1·39·11	1·38·53	1·38·65	1·38·21	1·38·41	1·37·90	1·38·55	1·38·62	1·38·60	1·38·05	1·38·06	1·38·19
38·0	1·39·25	1·38·96	1·38·58	1·38·10					1·38·60	1·37·92	1·38·07	1·38·08
43·0	1·39·22	1·39·06	1·38·51	1·38·35					1·38·60	1·38·07	1·38·10	1·38·12
48·0	1·39·22	1·39·06	1·38·44	1·38·35					1·38·46	1·38·13	1·38·10	1·37·97
53·0	1·39·20	1·39·22	1·38·34	1·38·42					1·38·39	1·38·27	1·38·14	1·37·97
58·0	1·39·20	1·39·36	1·38·27	1·38·35					1·38·39	1·38·21	1·38·14	1·37·83

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′213	14′626	14′728	14′249	13′150	12′188	12′188	13′562	14′936	15′211	14′936	14′179	13′664
5·0	14·249	14·592	14·592	14·179	13·047					15·211	14·936	14·076	13·734
10·0	14·249	14·694	14·832	13·974	12·978					15·211	14·798	14·008	13·768
15·0	14·488	14·592	14·728	13·837	12·944					15·211	14·762	13·906	13·768
20·0	14·317	14·386	14·832	13·837	12·533					15·211	14·762	13·871	13·768
25·0	14·386	14·557	14·798	13·785	12·533					15·176	14·660	13·871	13·768
30·0	14·471	14·523	14·660	13·700	12·463	12·188	12·806	14·420	15·211	15·211	14·660	13·768	13·700
35·0	14·592	14·386	14·592	13·785	12·463					15·211	14·523	13·630	13·700
40·0	14·592	14·454	14·592	13·389	12·463					15·176	14·523	13·630	13·664
45·0	14·557	14·660	14·488	13·562	12·360					15·108	14·454	13·630	13·700
50·0	14·798	14·660	14·317	13·236	12·326					15·108	14·317	13·630	13·906
55·0	14·626	14·660	14·249	13·184	12·188					15·038	14·213	13·664	14·111

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·620	18·540	18·710	18·950	19·000	19·050	18·840	18·700	18·500	18·375	18·270	18·300	17·985
7·0	18·630	18·485	18·700	18·950	19·000					18·365	18·270	18·290	17·850
12·0	18·600	18·465	18·735	18·950	19·000					18·350	18·275	18·290	17·810
17·0	18·550	18·445	18·740	19·000	19·000					18·365	18·270	18·310	17·810
22·0	18·550	18·480	18·720	19·000	19·100					18·370	18·270	18·310	17·855
27·0	18·600	18·530	18·790	19·000	19·150					18·370	18·250	18·305	17·820
32·0	18·750	18·575	18·820	18·980	19·102	18·950	18·750	18·575	18·450	18·337	18·250	18·355	18·020
37·0	18·680	18·615	18·850	19·960	19·060					18·320	18·250	18·290	18·042
42·0	18·650	18·680	18·850	19·050	19·050					18·315	18·250	18·180	18·040
47·0	18·615	18·680	18·900	19·050	19·050					18·300	18·260	18·175	18·045
52·0	18·600	18·700	18·900	19·000	19·050					18·270	18·270	18·140	18·010
57·0	18·585	18·680	18·910	19·000	19·050					18·270	18·270	18·050	18·040
Therm.	75°1	75°0	75°8	77°2	78°9		79°5	79°5	79°5	79°3	79°0	77°9	77°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	10·24·70	10·42·80	10·39·20	10·06·50	9·40·60					11·11·20	10·43·20	10·28·00	10·47·40
8·0	10·48·00	10·42·80	10·39·20	10·06·50	9·40·60					11·11·20	10·38·20	10·28·00	11·04·10
13·0	10·48·00	10·42·80	10·30·10	10·06·50	9·40·60					11·11·20	10·38·20	10·28·00	11·06·50
18·0	10·48·00	10·36·80	10·39·10	9·47·40	9·34·50					11·11·20	10·38·20	10·28·00	11·06·50
23·0	11·01·10	10·36·80	10·30·10	9·47·40	9·34·50					11·06·75	10·38·20	10·28·00	11·06·50
28·0	11·01·10	10·33·50	10·30·10	9·47·40	9·26·00	10·04·50	11·00·05	11·28·10	11·20·20	11·06·75	10·38·20	10·28·00	11·06·50
33·0	11·01·10	10·33·50	10·21·80	9·47·40	9·26·00					11·06·75	10·32·25	10·28·00	11·06·50
38·0	11·01·10	10·33·50	10·21·80	9·47·40	9·31·00					11·06·75	10·32·25	10·34·40	11·06·50
43·0	11·01·10	10·33·50	10·15·30	9·40·60	9·31·00					10·48·00	10·32·25	10·34·40	11·06·50
48·0	10·42·80	10·39·20	10·15·30	9·40·60	9·37·90					10·48·00	10·28·00	10·34·40	11·06·50
53·0	10·42·80	10·39·20	10·06·50	9·40·60	9·37·90					10·48·00	10·28·00	10·47·40	11·11·00
58·0	10·42·80	10·39·20	10·06·50	9·40·60	9·37·90	10·15·20	11·20·30	11·20·20	11·11·30	10·43·20	10·28·00	10·47·40	11·11·00
Therm.	77°4	76°5	75°8	76°0	77°0	Lost.	78°3	78°7	78°7	79°3	79°0	79°2	78°8

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13'94	13'94	13'42	12'37	11'38	11'85		14'04	14'04	13'99	13'42	12'95
5·0	13·94	13·99	13·36	12·31					14·04	13·99	13·42	12·95
10·0	13·94	13·94	13·78	12·31					14·20	13·94	13·36	13·10
15·0	13·94	13·88	13·10	12·21					14·35	13·94	13·36	13·16
20·0	13·88	13·94	12·95	11·95					14·25	13·88	13·36	13·26
25·0	13·83	13·94	12·90	11·95					14·14	13·88	13·31	13·26
30·0	13·83	13·88	12·90	11·95	11·33	12·37	13·83	14·47	14·09	13·78	12·95	13·26
35·0	13·83	13·88	12·83	11·85					14·09	13·62	12·90	13·36
40·0	13·78	13·78	12·78	11·79					14·04	13·47	12·90	13·36
45·0	13·88	13·68	12·63	11·64					14·04	13·47	12·90	13·36
50·0	13·88	13·68	12·47	11·48					14·09	13·47	12·90	13·36
55·0	13·88	13·62	12·37	11·38					14·09	13·42	12·83	13·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	7·290	7·310	7·560	7·700	7·800	7·450		7·000	6·900	6·800	6·800	6·570
7·0	7·300	7·340	7·610	7·690					6·890	6·840	6·810	6·510
12·0	7·340	7·380	7·670	7·660					6·890	6·810	6·790	6·440
17·0	7·280	7·300	7·690	7·710					6·900	6·800	6·740	6·390
22·0	7·220	7·360	7·700	7·700					6·880	6·780	6·780	6·340
27·0	7·290	7·410	7·720	7·680					6·880	6·800	6·800	6·290
32·0	7·340	7·470	7·720	7·690	7·650	7·390	7·090	6·950	6·880	6·790	6·760	6·390
37·0	7·390	7·490	7·700	7·650					6·900	6·760	6·700	6·440
42·0	7·420	7·500	7·770	7·720					6·890	6·790	6·690	6·440
47·0	7·400	7·500	7·790	7·780					6·850	6·850	6·710	6·490
52·0	7·380	7·510	7·750	7·800					6·820	6·820	6·680	6·450
57·0	7·350	7·500	7·690	7·850					6·800	6·790	6·620	6·400
Therm.	70°2	71°8	72°0	73°8	74°3	76°0		76°6	76°2	76°0	76°0	74°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°36'48	1°37'01	1°36'82	1°36'44	1°36'20	1°36'35		1°37'22	1°37'21	1°36'79	1°36'90	1°36'81
8·0	1·36·44	1·36·87	1·36·90	1·36·34					1·37·21	1·36·79	1·36·80	1·36·88
13·0	1·36·54	1·37·26	1·36·69	1·36·27					1·37·06	1·36·65	1·36·87	1·36·92
18·0	1·36·44	1·37·16	1·36·56	1·36·66					1·37·06	1·36·61	1·36·77	1·36·92
23·0	1·36·24	1·37·26	1·36·55	1·36·25					1·37·06	1·36·61	1·36·73	1·36·92
28·0	1·35·41	1·37·23	1·36·56	1·36·25					1·37·03	1·37·23	1·36·63	1·36·92
33·0	1·36·80	1·37·23	1·36·65	1·36·33	1·36·44	1·36·32	1·36·94	1·37·21	1·37·06	1·37·23	1·36·64	1·36·85
38·0	1·36·82	1·37·86	1·36·56	1·36·18					1·37·06	1·37·09	1·36·64	1·36·85
43·0	1·36·88	1·37·16	1·36·65	1·36·33					1·37·03	1·37·09	1·36·64	1·36·81
48·0	1·37·09	1·37·06	1·36·40	1·36·23					1·36·96	1·37·02	1·36·64	1·36·85
53·0	1·37·09	1·37·29	1·36·57	1·36·34					1·36·96	1·36·89	1·36·78	1·37·06
58·0	1·37·09	1·36·82	1·36·39	1·36·20					1·36·89	1·36·93	1·36·81	1·37·26

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH FEBRUARY, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'974	14'042	14'970	15'004	14'386	12'876	13'013	13'115	14'386	14'936	14'832	14'213	13'562
5·0	13·974	14·008	15·074	14·970	13·389					14·936	14·728	14·179	13·630
10·0	14·042	14·179	15·074	14·936	14·249					14·936	14·728	14·042	13·630
15·0	14·008	14·351	15·004	14·936	14·213					15·039	14·660	13·837	13·630
20·0	13·974	14·386	15·074	14·936	14·249					15·074	14·523	13·837	13·630
25·0	13·940	14·523	15·142	14·936	13·837					15·159	14·488	13·664	13·700
30·0	13·802	14·592	15·280	14·936	13·837	13·219	12·533	13·871	15·004	14·970	14·420	13·664	13·734
35·0	13·751	14·660	15·280	14·936	13·562					14·970	14·317	13·630	13·802
40·0	13·768	14·815	15·280	14·936	13·389					14·936	14·317	13·596	13·837
45·0	13·906	14·867	15·108	14·901	13·219					14·936	14·317	13·562	13·837
50·0	13·940	14·867	15·280	14·694	13·219					14·867	14·317	13·562	13·802
55·0	14·008	14·936	15·142	14·592	12·876					14·798	14·249	13·562	13·802

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·755	18·975	19·280	19·350	19·250	19·050	18·750	18·490	18·400	18·200	18·000	17·880	17·960
7·0	18·775	18·995	19·255	19·350	19·250					18·175	17·950	17·920	17·950
12·0	18·730	18·925	19·280	19·315	19·250					18·150	17·950	17·920	17·970
17·0	18·720	18·915	19·350	19·310	19·200					18·115	17·950	17·940	17·960
22·0	18·700	19·095	19·350	19·325	19·200					18·070	17·950	17·920	17·965
27·0	18·800	19·030	19·360	19·315	19·200					18·050	17·940	17·930	17·970
32·0	18·800	19·050	19·350	19·255	19·200	18·850	18·640	18·487	18·320	18·025	17·940	17·955	17·940
37·0	19·785	19·000	19·360	19·250	19·140					18·020	17·940	17·955	17·915
42·0	18·915	19·075	19·350	19·250	19·140					18·010	17·940	17·950	17·920
47·0	18·935	19·140	19·300	19·250	19·100					18·015	17·940	17·940	17·920
52·0	18·900	19·160	19·300	19·260	19·060					18·010	17·900	17·960	17·915
57·0	18·865	19·180	19·300	19·250	19·050					18·000	17·900	17·970	17·920
Therm.	75°8	75°7	76°2	78°0	79°9	80°3	81°6	81°9	82°1	82°5	82°5	81°7	80°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	2·39·50	2·38·90	3·01·30	2·27·90	1·29·50					2·48·55	1·49·50	1·32·85	2·04·60
8·0	3·23·70	2·44·30	3·01·30	2·27·90	1·29·50					2·19·30	1·49·50	1·32·85	2·11·60
13·0	3·23·70	2·44·30	3·01·30	2·27·90	1·29·50					2·16·95	1·38·00	1·32·85	2·11·60
18·0	2·23·70	2·47·70	3·01·30	2·27·90	1·29·50					2·15·20	1·38·00	1·32·85	2·17·20
23·0	3·23·70	2·47·70	3·01·30	2·14·75	1·17·75					2·15·20	1·32·85	1·32·85	2·17·20
28·0	3·17·30	2·47·70	3·01·30	2·14·75	1·17·75	1·33·00	2·00·05	3·05·05	2·41·30	2·08·20	1·32·85	1·42·20	2·25·60
33·0	3·17·30	2·47·70	3·01·30	2·14·75	1·17·75					2·04·40	1·32·85	1·42·20	2·29·50
38·0	3·04·40	2·47·70	2·40·50	2·14·75	1·17·75					2·04·40	1·32·85	2·00·00	2·29·50
43·0	2·44·80	2·47·70	2·40·50	2·03·70	1·17·75					2·04·40	1·32·85	2·00·00	2·29·50
48·0	2·38·90	2·47·70	2·40·50	2·03·70	1·17·75					2·04·40	1·32·85	2·00·00	2·29·50
53·0	2·38·90	2·47·70	2·40·50	1·48·25	1·17·75					2·10·50	1·32·85	2·04·60	2·34·00
58·0	2·38·90	3·01·30	2·40·25	1·48·25	1·17·75	1·45·05	2·37·80	3·08·10	2·48·55	1·49·50	1·32·85	2·04·60	2·34·00
Therm.	78°3	77°1	76°9	77°2	78°1	79°0	80°0	80°4	81°2	81°7	82°3	82°2	81°6

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER (in arc).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13′42	13′99	14′47	13′83	12′31	12′37	12′68	14′89	14′09	13′99	13′36	12′90
5·0	13·42	14·04	14·47	13·83					14·40	13·99	13·36	12·90
10·0	13·42	14·04	14·47	13·47					14·35	13·99	13·36	12·90
15·0	13·36	14·30	14·40	13·36					14·35	13·94	13·21	12·90
20·0	13·42	14·30	14·35	13·21					14·35	13·88	12·90	12·90
25·0	13·47	14·40	14·35	12·95					14·35	13·83	12·90	12·95
30·0	13·62	14·40	14·30	12·90	12·11	11·85	13·16	13·99	14·35	13·47	12·90	13·10
35·0	13·68	14·40	14·30	12·90					14·35	13·42	12·90	13·10
40·0	13·88	14·40	14·30	12·83					14·30	13·42	12·90	13·10
45·0	13·94	14·47	14·09	12·78					14·30	13·42	12·90	12·95
50·0	13·99	14·47	13·99	12·42					14·30	13·36	12·83	12·90
55·0	13·99	14·47	13·94	12·37					13·99	13·36	12·83	12·90

SMALL HORIZONTAL FORCE (in Scale Readings).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
2·0	7·400	7·810	7·900	7·720	7·450	6·920	6·760	6·700	6·500	6·410	6·500	6·640
7·0	7·490	7·850	7·950	7·700					6·510	6·470	6·490	6·640
12·0	7·510	7·880	7·970	7·670					6·490	6·490	6·490	6·600
17·0	7·600	7·910	7·910	7·600					6·400	6·390	6·580	6·650
22·0	7·410	7·970	7·990	7·600					6·420	6·320	6·570	6·680
27·0	7·650	7·980	8·000	7·660					6·420	6·310	6·600	6·620
32·0	7·700	7·980	8·000	7·610	7·150	6·900	6·700	6·620	6·440	6·300	6·620	6·600
37·0	7·700	7·990	7·980	7·600					6·460	6·440	6·650	6·620
42·0	7·690	7·990	7·910	7·550					6·480	6·490	6·650	6·600
47·0	7·700	7·910	7·890	7·520					6·410	6·500	6·650	6·600
52·0	7·740	7·890	7·810	7·500					6·470	6·510	6·670	6·590
57·0	7·860	7·900	7·760	7·490					6·400	6·560	6·700	6·610
Therm.	72°0	72°1	72°3	74°0	76°0	78°0	79°0	79°8	80°0	80°0	82°0	79°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
3·0	1°37′05	1°37′83	1°37′57	1°37′68	1°37′18	1°37′31	1°37′13	1°37′68	1°37′80	1°37′69	1°37′22	1°37′00
8·0	1·37·02	1·37·93	1·37·54	1·37·68					1·37·80	1·37·63	1·37·19	1·37·07
13·0	1·37·19	1·37·93	1·37·51	1·37·83					1·37·80	1·37·58	1·37·19	1·37·07
18·0	1·37·21	1·37·72	1·37·51	1·37·79					1·37·90	1·37·52	1·36·99	1·37·07
23·0	1·37·25	1·37·79	1·37·51	1·38·20					1·37·93	1·37·38	1·36·99	1·37·07
28·0	1·37·38	1·37·86	1·37·51	1·37·84					1·38·02	1·37·35	1·36·81	1·37·14
33·0	1·37·45	1·38·00	1·37·51	1·37·84	1·37·52	1·36·83	1·37·74	1·38·15	1·37·83	1·37·28	1·36·81	1·37·02
38·0	1·37·52	1·37·85	1·37·51	1·37·57					1·37·83	1·37·18	1·36·92	1·37·09
43·0	1·37·68	1·37·85	1·37·66	1·37·40					1·37·80	1·37·18	1·36·89	1·37·13
48·0	1·37·73	1·37·68	1·37·67	1·37·38					1·37·80	1·37·18	1·36·85	1·37·13
53·0	1·37·73	1·37·85	1·37·57	1·37·38					1·37·73	1·37·18	1·36·85	1·37·09
58·0	1·37·80	1·37·71	1·37·60	1·37·04					1·37·66	1·37·11	1·36·85	1·37·09

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'768	13'219	14'249	14'249	14'213	13'562	13'906	14'025	14'592	14'317	13'974	13'562	13'219
5·0	13·664	13·287	14·317	14·249	14·093					14·317	13·974	13·527	13·253
10·0	13·630	13·389	14·386	14·249	14·076					14·317	13·974	13·425	13·253
15·0	13·562	13·493	14·420	14·249	14·179					14·283	13·906	13·459	13·253
20·0	13·562	13·425	14·523	14·249	13·974					14·317	13·906	13·425	13·287
25·0	13·562	13·493	14·523	14·249	13·906					14·249	13·837	13·425	13·287
30·0	13·425	13·596	14·523	14·249	13·906	13·906	13·906	14·454	14·592	14·213	13·700	13·355	13·287
35·0	13·321	13·664	14·592	14·249	13·906					14·213	13·700	13·355	13·287
40·0	13·287	13·971	14·592	14·249	13·906					14·179	13·527	13·355	13·287
45·0	13·338	13·974	14·351	14·249	13·906					14·179	13·527	13·355	13·287
50·0	13·219	14·111	14·249	14·249	13·906					14·179	13·562	13·287	13·287
55·0	13·219	14·111	14·249	14·249	13·630					14·111	13·562	13·287	13·287

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·070	18·125	18·310	18·450	18·550	18·600	18.450	18.110	17·865	17·620	17·400	17·450	17·485
7·0	18·050	18·100	18·350	18·450	18·562					17·610	17·400	17·440	17·460
12·0	18·050	18·120	18·340	18·500	18·600					17·600	17·400	17·425	17·400
17·0	18·050	18·160	18·330	18·500	18·600					17·575	17·400	17·450	17·400
22·0	18·120	18·135	18·350	18·500	18·610					17·572	17·400	17·470	17·405
27·0	18·150	18·180	18·360	18·500	18·650					17·550	17.440	17·490	17·420
32·0	18·175	18·220	18·350	18·550	18·650	18·600	18.305	17·955	17·720	17·545	17.410	17·520	17·400
37·0	18·210	18·270	18·400	18·550	18·650					17·490	17.440	17·550	17·420
42·0	18·220	18·290	18·400	18·550	18·650					17·465	17.450	17·535	17·400
47·0	18·220	18·255	18·495	18·550	18·610					17·445	17·440	17·520	17·360
52·0	18 187	18·340	18·450	18·550	18·600					17·450	17·440	17·510	17·380
57·0	18·125	18·335	18·450	18·550	18·600					17·430	17·470	17·500	17·400
Therm.	79°0	78°9	79°6	81°0	82°3	83°0	84°0	84°8	84°9	84°9	84°4	83°4	82°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·07·10	3·38·70	3·42·50	3·15·00	2·35·65					2·39·00	2·43·00	2·47·80	3·08·30
8·0	4·07·10	3·38·70	3·42·50	3·15·00	2·35·65					2·39·00	2·43·00	2·47·80	3·15·70
13·0	4·07·10	3·38·70	3·42·50	3·15·00	2·25·25					2·39·00	2·43·00	2·47·80	3·15·70
18·0	4·07·10	3·42·50	3·42·50	3·15·00	2·25·25					2·39·00	2·43·00	3·01·60	3·15·70
23·0	4·07·10	3·42·50	3·42·50	3·06·25	2·25·25					2·39·00	2·43·00	3·01·60	3·15·70
28·0	4·07·10	3·42·50	3·42·50	3·06·25	2·25·25	2·23·00		3·05·55	2·44·90	2·39·00	2·43·00	3·04·90	3·15·70
33·0	4·03·80	3·42·50	3·33·10	3·06·25	2·25·25					2·42·90	2·43·00	3·04·90	3·21·70
38·0	4·03·80	3·42·50	3·33·10	2·48·30	2·17·85					2·42·90	2·43·00	3·04·90	3·21·70
43·0	3·44·90	3·42·50	3·22·00	2·48·30	2·17·85					2·42·90	2·43·00	3·04·90	3·21·70
48·0	3·34·10	3·42·50	3·22·00	2·41·50	2·17·85					2·42·90	2·43·00	3·04·90	3·21·70
53·0	3·32·00	3·42·50	3·22·00	2·41·50	2·17·85					2·42·90	2·43·00	3·03·30	3·21·70
58·0	3·32·00	3·42·50	3·15·00	2·35·65	2·17·85	2·34·60	2·45·40	3·05·55	2·39·00	2·43·00	2·43·00	3·03·30	3·28·50
Therm.	81°4	80°0	79°6	80°0	80°6	81°5	82°3	83°4	83°5	83°9	84°2	83°9	83°4

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	12'37	13'26	13'42	13'36	12'90	12'90	13'05	13'52	13'42	13'05	12'78	12'37
5·0	12·37	13·31	13·42	13·36					13·42	12·95	12·73	12·42
10·0	12·37	13·36	13·42	13·31					13·42	12·95	12·57	12·42
15·0	12·42	13·42	13·36	13·31					13·36	12·95	12·57	12·42
20·0	12·52	13·42	13·36	13·10					13·36	12·90	12·57	12·42
25·0	12·73	13·42	13·36	12·95					13·36	12·90	12·57	12·42
30·0	12·78	13·42	13·36	12·95	12·90	12·90	13·42	13·42	13·36	12·90	12·42	12·47
35·0	12·83	13·47	13·36	12·95					13·36	12·78	12·37	12·47
40·0	12·83	13·52	13·42	12·95					13·31	12·73	12·37	12·47
45·0	12·90	13·52	13·42	12·95					13·36	12·73	12·37	12·42
50·0	13·00	13·47	13·36	12·90					13·31	12·78	12·37	12·42
55·0	13·05	13·42	13·36	12·90					13·31	12·78	12·37	12·42

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	7·800	7·720	7·890	7·890	7·790	7·750	7·200	6·920	6·900	6·680	6·820	6·740
7·0	7·800	7·760	7·820	7·880					6·800	6·640	6·840	6·700
12·0	7·790	7·730	7·790	7·850					6·790	6·610	6·800	6·760
17·0	7·740	7·740	7·840	7·850					6·780	6·600	6·790	6·780
22·0	7·720	7·700	7·890	7·880					6·780	6·590	6·840	6·780
27·7	7·700	7·700	7·900	7·850					6·740	6·520	6·890	6·790
32·0	7·700	7·700	7·890	7·800	7·700	7·350	7·100	6·890	6·700	6·590	6·900	6·720
37·0	7·700	7·720	7·880	7·820					6·700	6·600	6·850	6·780
42·0	7·710	7·700	7·850	7·850					6·690	6·690	6·800	6·720
47·0	7·700	7·760	7·890	7·800					6·690	6·740	6·750	6·780
52·0	7·690	7·790	7·900	7·780					6·720	6·800	6·700	6·800
57·0	7·680	7·790	7·900	7·790					6·690	6·790	6·740	6·720
Therm.	74°2	75°6	76°0	77°5	78°2	80°0	80°8	81°6	81°6	80°4	82°4	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1'36'80	1'37'40	1'37'26	1'37'50	1'37'72	1'38'21	1'38'03	1'38'46	1'38'48	1'38'27	1'38'29	1'38'67
8·0	1·36·87	1·37·47	1·37·26	1·37·38					1·38·48	1·38·27	1·38·26	1·38·70
13·0	1·36·97	1·37·54	1·37·26	1·37·37					1·38·48	1·38·27	1·38·15	1·38·56
18·0	1·37·21	1·37·43	1·37·26	1·37·47					1·38·44	1·38·21	1·38·18	1·38·56
23·0	1·37·14	1·37·53	1·37·26	1·37·41					1·38·48	1·38·35	1·38·15	1·38·59
28·0	1·37·36	1·37·53	1·37·26	1·37·35					1·38·41	1·38·29	1·38·15	1·38·59
33·0	1·37·47	1·37·53	1·37·40	1·37·92	1·38·21	1·38·21	1·38·17	1·38·60	1·38·37	1·38·15	1·38·08	1·38·60
38·0	1·37·53	1·37·60	1·37·40	1·37·92					1·38·37	1·38·15	1·38·37	1·38·60
43·0	1·37·16	1·37·60	1·37·40	1·37·92					1·38·34	1·37·98	1·38·09	1·38·60
48·0	1·37·26	1·37·36	1·37·40	1·37·92					1·38·34	1·38·30	1·37·80	1·38·60
53·0	1·37·26	1·37·26	1·37·40	1·38·07					1·38·34	1·38·29	1·38·74	1·38·60
58·0	1·37·26	1·37·40	1·37·40	1·37·79					1·38·37	1·38·29	1·38·78	1·38·60

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h.	Noon.	1h	2h
M. s.													
0·0	13′906	14′042	13′974	14′249	14′454	13′527	13′906	14′111	14′386	14′386	13′974	13′768	13′562
5·0	13·974	14·213	14·076	14·249	14·523					14·386	14·042	13·700	13·630
10·0	14·111	14·076	13·940	14·249	14·420					14·523	13·940	13·630	13·768
15·0	14·008	14·145	14·488	14·249	14·249					14·523	14·111	13·630	13·871
20·0	13·734	14·179	14·179	14·249	14·249					14·592	13·974	13·630	13·871
25·0	13·906	14·243	14·386	14·592	14·249					14·523	13·974	13·562	13·837
30·0	14·145	14·076	14·488	14·592	13·906	13·906	13·630	14·386	14·284	14·386	13·469	13·562	13·974
35·0	13·974	14·111	14·317	14·420	13·940					14·317	13·906	13·562	13·974
40·0	13·974	14·008	14·454	14·351	13·940					14·317	13·906	13·493	13·974
45·0	13·940	14·008	14·523	14·351	13·906					14·317	13·906	13·562	13·974
50·0	14·076	14·008	14·592	14·317	13·871					14·249	13·871	13·734	13·974
55·0	14·042	14·111	14·317	14·317	13·837					14·179	13·837	13·596	13·974

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	19·220	19·540	19·950	20·000	19·995	20·050	19·600	19·580	19·580	19·190	18·900	19·030	18·900
7·0	19·250	19·510	19·910	20·000	19·960					19·160	18·900	19·090	18·925
12·0	19·235	19·460	19·950	20·000	19·975					19·060	18·980	19·080	19·000
17·0	19·255	19·560	19·910	20·050	20·050					19·010	18·900	19·005	18·790
22·0	19·245	19·560	19·900	20·050	20·150					18·920	18·870	18·980	18·900
27·0	19·205	19·525	19·960	20·050	20·055					18·870	18·860	18·950	18·905
32·0	19·250	19·725	19·960	20·050	20·150	19·825	19·600	19·640	18·390	18·950	18·870	18·910	18·775
37·0	19·380	19·650	19·960	20·050	20·175					18·970	18·890	18·970	18·825
42·0	19·440	19·780	19·960	20·050	20·050					18·950	18·855	18·930	18·860
47·0	19·430	19·730	19·960	20·050	20·050					18·940	18·870	18·820	18·912
52·0	19·400	19·800	19·850	20·060	20·050					18·910	18·940	18·795	18·870
57·0	19·520	19·825	20·000	20·050	20·050					—	19·010	18·825	18·805
Therm.	74°0	73°9	74°3	76°0	77°1	78°9	79°2	79°5	79°5	79°8	79°5	78°6	77°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	1·29·10	1·18·60	0·47·40	0·09·50	–0·04·00					0·31·00	0·12·00	0·12·50	0·24·00
8·0	1·29·10	1·18·60	0·47·40	0·09·50	–0·11·60					0·31·00	0·12·00	0·12·50	0·24·00
13·0	1·19·10	1·18·60	0·40·50	0·09·50	–0·11·60					0·31·00	0·12·00	0·18·00	0·28·10
18·0	1·29·10	1·22·40	0·40·50	0·09·50	–0·23·00					0·31·00	0·12·50	0·18·00	0·28·10
23·0	1·29·10	1·22·40	0·40·50	0·09·90	–0·23·00					0·27·00	0·12·50	0·18·00	0·28·10
28·0	1·29·10	1·22·40	0·30·70	0·09·90	–0·26·15	–0·20·10	0·08·00	0·36·00	0·30·00	0·28·50	0·12·50	0·24·00	0·35·30
33·0	1·29·10	1·22·40	0·30·70	0·09·90	–0·26·15					0·20·50	0·12·50	0·24·00	0·35·30
38·0	1·09·80	1·09·50	0·30·70	0·01·85	–0·26·15					0·20·50	0·12·50	0·24·00	0·35·30
43·0	1·06·30	1·09·50	0·30·70	0·01·85	–0·26·15					0·20·50	0·12·50	0·24·00	0·27·10
48·0	1·06·30	1·01·40	0·26·00	0·01·85	–0·26·15					0·20·50	0·12·50	0 24·00	0·27·10
53·0	1·13·90	1·01·40	0·26·00	0·01·85	–0·38·40					0·16·50	0·12·50	0·24·00	0·27·10
58·0	1·13·90	0·47·40	0·26·00	–0·04·00	–0·38·40	–0·00·10	0·27·00	0·35·10	0·31·00	0·13·50	0·12·50	0·24·00	0·27·10
Therm.	77°0	75°3	74°5	75°0	75°8	77°0	77°7	78°0	78°7	79°0	80°0	79°7	79°3

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′83	13′78	13′94	13′94	13′21	13′42	13′62	13′88			13′36	13′76
5·0	13·83	13.78	13·88	13·94							13·36	13·76
10·0	13·83	13·78	13·88	13·94							13·00	13·76
15·0	13·83	13·88	13·88	13·99							12·95	13·76
20·0	13·83	13·83	13·88	13·88							12·95	13·76
25·0	13·83	13·83	13·88	13·88							12·90	13·39
30·0	13·83	13·88	13·88	13·62	13·42	13·42	13·94	13·88		13·42	12·90	13·42
35·0	13·88	13·88	13·88	13·62						13·42	12·90	13·42
40·0	13·88	13·88	13·83	13·47						13·42	12·90	13·42
45·0	13·88	13·94	13·83	13·47						13·42	12·90	13·47
50·0	13·88	13·94	13·88	13·42						13·42	12·90	13·42
55·0	13·83	13·94	13·88	13·36						13·36	13·21	13·42

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	7·780	7·970	8·100	8·070	8·150	7·500	7·590	7·460			6·800	6·640
7·0	7·720	7·980	8·110	8·050							6·780	6·660
12·0	7·740	8·000	8·130	8·050							6·780	6·650
17·0	7·790	8·060	8·160	8·070							6·800	6·620
22·0	7·780	8·040	8·190	8·09							6·780	6·600
27·0	7·800	8·100	8·200	8·170							6·740	6·610
32·0	7·800	8·110	8·240	8·140	7·850	7·500	7·700	7·320		6·660	6·700	6·600
37·0	7·800	8·100	8·250	8·180						6·700	6·720	6·590
42·0	7·840	8·100	8·220	8·100						6·700	6·740	6·560
47·0	7·810	8·090	8·260	8·080						6·750	6·710	6·550
52·0	7·870	8·080	8·270	8·100						6·780	6·750	6·510
57·0	7·900	8·090	8·290	8·120						6·790	6·750	6·490
Therm.	68°6	69°9	71°5	72°1	74°0	75°8	76°5	77°5			76°2	75°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°40′92	1°41′14	1°41′28	1°41′33	1°40′85	1°41′08	1°41′28	1°41′56			1°41′23	1°41′16
8·0	1·41·09	1·41·25	1·41·28	1·41·40							1·41·16	1·41·23
13·0	1·40·96	1·41·11	1·41·28	1·41·30							1·41·09	1·41·37
18·0	1·41·02	1·41·66	1·41·13	1·41·13							1·41·09	1·41·47
23·0	1·41·06	1·41·35	1·41·13	1·41·13							1·41·09	1·41·47
28·0	1·41·16	1·41·55	1·41·47	1·41·13							1·41·02	1·41·44
33·0	1·40·96	1·41·66	1·41·47	1·40·79	1·41·08	1·40·80	1·41·56			1·41·08	1·41·02	1·41·57
38·0	1·41·28	1·41·49	1·41·30	1·40·82						1·41·08	1·41·02	1·41·57
43·0	1·41·18	1·41·62	1·41·23	1·40·82						1·41·08	1·40·95	1·41·57
48·0	1·41·18	1·41·55	1·41·23	1·40·79						1·41·08	1·41·02	1·41·57
53·0	1·41·18	1·41·62	1·41·20	1·41·04						1·41·04	1·41·19	1·41·57
58·0	1·41·28	1·41·36	1·41·20	1·41·16						1·41·16	1·41·06	1·41·57

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22	23h	Noon.	1h	2h
M. s.													
0·0	13·940	14·386	15·211	14·936	14·249	13·389	12·188	13·287	14·592	14·592	14·728	14·249	13·700
5·0	14·076	14·283	15·074	14·694	13·974					14·592	14·728	14·111	13·802
10·0	14·145	14·249	15·142	14·660	13·974					14·660	14·728	13·940	13·768
15·0	14·179	14·557	15·074	14·592	13·906					14·660	14·728	14·076	13·837
20·0	13·974	14·557	15·004	14·283	13·871					14·660	14·660	13·906	13·871
25·0	14·249	14·660	14·970	14·317	13·906					14·660	14·592	13·940	13·906
30·0	14·076	14·660	14·936	14·249	13·785	12·772	12·583	13·974	14·523	14·660	14·523	13·906	13·906
35·0	14·386	14·660	14·936	14·300	13·613					14·660	14·523	13·906	13·974
40·0	14·488	14·626	14·936	14·592	13·527					14·660	14·523	13·871	13·974
45·0	14·386	14·832	14·936	14·334	13·493					14·660	14·454	13·837	14·111
50·0	14·317	14·798	14·936	14·249	13·493					14·728	14·386	13·768	14·179
55·0	14·351	15·108	14·936	14·249	13·219					14·728	14·317	13·700	14·179

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	19·030	19·145	19·495	19·750	19·905	19·800	19·750	19·170	18·720	18·350	18·190	18·190	18·260
7·0	19·010	19·152	19·542	19·750	19·850					18·350	18·180	18·190	18·250
12·0	19·045	19·250	19·560	19·800	19·850					18·330	18·180	18·210	18·210
17·0	19·025	19·250	19·555	19·800	19·850					18·310	18·190	18·210	18·220
22·0	19·020	19·260	19·650	19·850	19·950					18·280	18·190	18·220	18·250
27·0	18·995	19·185	19·650	19·850	19·850					18·270	18·220	18·220	18·230
32·0	18·985	19·385	19·695	19·800	19·850	19·750	19·450	18·960	18·490	18·250	18·200	18·250	18·290
37·0	19·045	19·345	19·650	19·850	19·850					18·220	18·190	18·230	18·320
42·0	19·020	19·380	19·700	19·850	19·890					18·220	18·190	18·220	18·340
47·0	19·100	19·400	19·650	19·850	19·862					18·220	18·180	18·230	18·315
52·0	19·100	19·470	19·700	19·900	19·900					18·200	18·190	18·250	18·260
57·0	19·110	19·445	19·700	19·900	19·850					18·200	18·180	18·290	18·270
Therm.	75°2	74°1	75°1	77°5	79°8	80°8	81°2	82°0	82°2	82°5	82°2	81°0	80°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	1·29·50	1·13·60	1·04·10	0·01·90	−0·32·30					1·05·50	1·06·00	0·36·00	0·44·30
8·0	1·29·50	1·11·50	0·43·90	0·01·90	−0·32·30					1·05·50	1·06·00	0·36·00	0·44·30
13·0	1·29·50	1·11·50	0·43·90	−0·07·90	−0·42·15					1·05·50	0·49·00	0·36·00	1·05·70
18·0	1·23·20	1·11·50	0·43·90	−0·07·90	−0·42·15					1·05·50	0·47·00	0·36·00	1·05·70
23·0	1·23·20	1·11·50	0·38·50	−0·23·35	−0·48·95					1·05·50	0·44·50	0·44·30	1·08·40
28·0	1·23·20	1·11·50	0·30·80	−0·23·35	−0·48·95	−0·30·15	0·27·55	1·22·50	1·15·00	1·09·25	0·41·50	0·44·30	1·08·40
33·0	1·23·20	1·11·50	0·30·80	−0·23·35	−0·48·95					1·09·25	0·41·50	0·44·30	1·06·70
38·0	1·23·20	1·11·50	0·30·80	−0·23·35	−0·48·95					1·11·05	0·41·50	0·44·30	1·06·70
43·0	1·13·60	1·11·50	0·30·80	−0·23·35	−0·48·95					1·11·05	0·41·50	0·44·30	1·06·70
48·0	1·13·60	1·11·50	0·18·10	−0·24·50	−0·48·95					1·11·05	0·41·50	0·44·30	1·06·70
53·0	1·13·60	1·04·10	0·12·10	−0·24·50	−0·48·95					1·11·05	0·36·00	0·44·30	1·06·70
58·0	1·13·60	1·04·10	0·12·10	−0·32·30	−0·48·95	−0·08·20	1·02·4	1·28·50	1·05·50	1·06·00	0·36·00	0·44·30	1·06·70
Therm.	78°3	76°5	75°9	76°7	78°0	79°0	80°0	80°5	81°4	82°0	82°0	81°7	81°4

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′99	14′47	14′40	13′78	12′90	11′85	12′90	14′09	14′30	14′47	13′88	13′42
5·0	13·99	14·47	14·40	13·57					14·30	14·47	13·88	13·42
10·0	14·20	14·47	14·14	13·42					14·40	14·47	13·73	13·42
15·0	14·35	14·47	13·99	13·42					14·40	14·47	13·52	13·42
20·0	14·40	14·47	13·99	13·42					14·40	14·36	13·42	13·42
25·0	14·40	14·47	13·94	13·42					14·40	14·36	13·42	13·42
30·0	14·47	14·47	13·94	13·31	11·95	12·37	13·88	14·20	14·40	14·36	13·42	13·42
35·0	14·47	14·47	13·99	13·10					14·40	14·20	13·42	13·42
40·0	14·47	14·47	13·94	12·95					14·40	13·99	13·42	13·42
45·0	14·47	14·47	13·94	12·90					14·40	13·99	13·42	13·68
50·0	14·47	14·47	13·88	12·90					14·47	13·94	13·42	13·68
55·0	14·47	14·47	13·88	12·90					14·47	13·94	13·42	13·62

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	6·800	6·790	6·780	7·200	7·400	7·500	6·890	6·420	6·200	6·180	6·270	6·250
7·0	6·800	6·790	6·780	7·260					6·240	6·170	6·290	6·210
12·0	6·790	6·780	6·760	7·310					6·200	6·210	6·280	6·230
17·0	6·790	6·800	6·800	7·390					6·180	6·270	6·210	6·200
22·0	6·780	6·790	6·810	7·420					6·170	6·280	6·190	6·190
27·0	6·780	6·800	6·790	7·490					6·160	6·260	6·150	6·210
32·0	6·780	6·800	6·840	7·400	7·450	7·150	6·700	6·220	6·120	6·290	6·150	6·240
37·0	6·780	6·750	6·910	7·480					6·110	6·250	6·180	6·200
42·0	6·800	6·740	6·970	7·490					6·160	6·220	6·150	6·190
47·0	6·800	6·790	6·990	7·480					6·190	6·290	6·190	6·210
52·0	6·800	6·780	7·050	7·500					6·180	6·300	6·240	6·160
57·0	6·800	6·800	7·130	7·450					6·190	6·260	6·250	6·130
Therm.	70°3	71°9	73°8	76°2	78°0	79°6	80°1	80°3	80°3	80°2	80°4	78°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°41′85	1°43′24	1°43′41	1°42′72	1°42′00	1°41′09	1°41′76	1°42′05	1°41′76	1°41′90	1°41′42	1°41′02
8·0	1·41·74	1·43·10	1·43·16	1·42·44					1·41·76	1·41·90	1·41·28	1·41·12
13·0	1·41·83	1·43·17	1·43·13	1·42·44					1·41·83	1·41·90	1·41·11	1·41·09
18·0	1·42·14	1·43·10	1·43·20	1·42·37					1·41·83	1·41·90	1·41·25	1·41·16
23·0	1·42·13	1·43·32	1·42·89	1·42·34					1·41·83	1·41·83	1·41·07	1·41·19
28·0	1·42·24	1·43·29	1·42·98	1·42·38					1·41·83	1·41·76	1·41·11	1·41·23
33·0	1·42·24	1·43·26	1·42·72	1·42·26	1·41·38	1·41·14	1·42·00	1·41·98	1·41·83	1·41·69	1·41·23	1·41·23
38·0	1·42·21	1·43·41	1·42·77	1·42·08					1·41·83	1·41·69	1·41·23	1·41·29
43·0	1·42·41	1·43·41	1·43·06	1·42·14					1·41·83	1·41·69	1·41·19	1·41·29
48·0	1·42·38	1·43·43	1·42·80	1·42·10					1·41·83	1·41·62	1·41·16	1·41·43
53·0	1·42·38	1·43·41	1·42·72	1·42·10					1·41·90	1·41·56	1·41·09	1·41·50
58·0	1·43·00	1·43·41	1·42·72	1·41·83					1·41·90	1·41·49	1·41·02	1·41·50

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′111	14′076	13′974	12′876	12′256	12′188	12′533	13′562	14′179	15′074	15′211	14′728	14′179
5·0	14·111	13·974	13·974	12·876	12·360					15·211	15·211	14·660	14·042
10·0	14·145	14·179	13·837	13·184	12·463					15·280	15·142	14·660	14·249
15·0	14·317	14·523	13·700	13·184	12·222					15·416	15·074	14·592	14·076
20·0	14·213	14·179	13·630	13·219	12·188					15·348	15·074	14·557	14·111
25·0	14·317	14·386	13·562	12·876	12·188					15·348	15·074	14·523	13·974
30·0	14·420	14·145	13·459	12·840	12·188	12·360	12·876	13·906	14·386	15·348	15·074	14·454	13·974
35·0	14·283	14·213	13·219	12·840	12·188					15·348	15·074	14·523	14·249
40·0	14·249	14·111	13·219	12·601	12·188					15·280	15·038	14·386	14·042
45·0	14·283	14·042	13·253	12·533	11·981					15·348	15·004	14·386	13·906
50·0	14·213	14·076	12·978	12·533	12·119					15·280	14·798	14·317	14·042
55·0	14·249	14·042	13·013	12·360	12·119					15·280	14·798	14·249	13·906

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·835	19·035	19·070	18·960	18·860	19·050	19·100	18·97	18·800	18·470	18·190	18·300	18·365
7·0	18·825	19·080	19·050	19·000	18·900					18·480	18·190	18·330	18·365
12·0	18·810	19·092	19·065	18·950	18·900					18·460	18·180	18·340	18·375
17·0	18·885	19·075	19·090	18·900	18·950					18·430	18·180	18·350	18·445
22·0	18·935	18·950	19·070	18·850	18·950					18·380	18·170	18·360	18·420
27·0	18·980	19·085	19·020	18·900	18·950					18·330	18·170	18·405	18·465
32·0	18·950	19·080	18·975	18·850	18·950	19·100	19·050	18·94	18·58	18·290	18·020	18·440	18·405
37·0	18·955	19·090	19·000	18·900	19·000					18·250	18·230	18·420	18·450
42·0	19·020	19·015	19·000	18·970	19·000					18·220	18·235	18·420	18·475
47·0	18·985	19·080	19·050	18·960	19·050					18·200	18·250	18·325	18·495
52·0	19·040	19·060	19·050	18·950	19·050					18·200	18·250	18·270	18·465
57·0	19·050	19·060	19·000	18·900	19·050					18·200	18·270	18·310	18·470
Therm.	76°2	76°0	77°6	79°2	79°9	80°0	80°4	80°9	81°0	81°0	80°7	79°8	78°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·03·70	2·38·70	2·19·50	1·46·50	1·36·50					3·01·00	2·37·00	2·32·25	2·40·10
8·0	3·16·20	2·38·70	2·19·50	1·46·50	1·36·50					3·03·00	2·37·00	2·32·25	2·49·50
13·0	3·04·10	2·38·70	2·19·50	1·39·10	1·36·50					3·03·00	2·32·25	2·32·25	2·49·50
18·0	3·04·10	2·38·70	2·12·30	1·39·10	1·36·50					3·03·00	2·32·25	2·32·25	2·49·50
23·0	3·04·10	2·38·70	2·12·30	1·39·10	1·36·50					2·48·00	2·32·25	2·32·25	2·49·50
28·0	2·47·20	2·38·70	2·12·30	1·39·10	1·36·50	2·01·40	2·16·10	2·31·00	2·38·00	2·48·00	2·32·25	2·32·25	2·49·50
33·0	2·42·60	2·38·70	2·12·30	1·39·10	1·36·50					2·48·00	2·32·25	2·32·25	3·05·50
38·0	2·42·60	2·32·40	2·04·30	1·39·10	1·36·50					2·41·50	2·32·25	2·32·25	3·05·50
43·0	2·42·60	2·32·40	2·04·30	1·32·00	1·36·50					2·41·50	2·32·25	2·32·25	3·15·25
48·0	2·38·70	2·24·75	2·04·30	1·32·00	1·36·50					2·41·50	2·32·25	2·32·25	3·18·80
53·0	2·38·70	2·24·75	1·46·50	1·36·50	1·43·90					2·41·50	2·32·25	2·40·10	3·18·80
58·0	2·38·70	2·19·50	1·46·50	1·36·50	1·43·90	2·14.15	2·31·00	2·31·00	3·01·00	2·37·00	2·32·25	2·40·10	3·24·20
Therm.	79°0	77°5	77°5	78°0	78°6	79°2	79°5	80°0	80°4	80°6	80°8	80°8	80°4

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′94	13′42	12′73	11′79	11′79	12′37	12′90	13′52	14′78	14′93	14′47	13′94
5·0	13·94	13·36	12·78	11·59					14·93	14·93	14·47	13·94
10·0	13·94	13·36	12·78	11·53					14·93	14·93	14·47	13·94
15·0	13·94	13·31	12·42	11·43					14·99	14·88	14·40	13·94
20·0	13·94	13·62	12·37	11·48					14·93	14·88	14·40	13·88
25·0	13·94	12·95	12·37	11·43					14·93	14·88	14·35	13·88
30·0	13·88	12·90	12·31	11·38	11·85	12·37	13·36	13·96	14·93	14·83	14·30	13·88
35·0	13·83	12·90	12·31	11·48					14·93	14·83	14·20	13·89
40·0	13·83	12·83	11·95	11·53					14·93	14·83	14·09	13·83
45·0	13·68	12·63	11·90	11·69					14·93	14·78	13·94	13·88
50·0	13·47	12·63	11·79	11·74					14·93	14·47	13·94	13·88
55·0	13·42	12·78	11·79	11·74					14·93	14·47	13·94	13·88

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	6·600	6·920	6·910	6·400	6·570	6·550	6·360	6·130	5·880	5·600	5·810	6·050
7·0	6·610	6·930	6·880	6·390					5·870	5·600	5·900	6·040
12·0	6·650	6·980	6·890	6·450					5·880	5·590	5·940	6·060
17·0	6·640	6·990	6·810	6·500					5·800	5·600	5·910	6·090
22·0	6·660	7·020	6·760	6·500					5·790	5·590	5·980	6·100
27·0	6·650	6·980	6·700	6·490					5·710	5·590	6·000	6·090
32·0	6·700	6·910	6·650	6·500	6·600	6·450	6·430	5·960	5·680	5·600	6·000	6·090
37·0	6·780	6·900	6·590	6·520					5·630	5·650	6·020	6·090
42·0	6·800	6·940	6·600	6·580					5·600	5·690	6·060	6·090
47·0	6·880	6·950	6·590	6·590					5·580	5·700	6·070	6·100
52·0	6·900	6·990	6·520	6·590					5·610	5·780	6·050	6·090
57·0	6·900	6·900	6·490	6·580					5·600	5·810	6·020	6·080
Therm.	72°0	73°8	74°2	75°9	76°4	78°0	78°1	78°3	78°2	78°0	78°0	76°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
8·0	1°43′99	1°43′88	1°43′07	1°43′60	1°43′67	1°44′01	1°44′18	1°44′37	1°44′83	1°44′68	1°44′19	1°44′23
8·0	1·43·88	1·44·02	1·43·21	1·43·70					1·44·97	1·44·68	1·44·42	1·44·09
13·0	1·44·09	1·43·89	1·43·51	1·43·80					1·44·84	1·44·61	1·44·42	1·44·30
18·0	1·44·43	1·43·75	1·43·51	1·43·56					1·45·04	1·44·54	1·44·35	1·44·13
23·0	1·44·09	1·43·68	1·43·55	1·43·53					1·44·97	1·44·69	1·44·32	1·44·30
28·0	1·44·30	1·43·61	1·43·21	1·43·67					1·44·97	1·44·69	1·44·43	1·44·16
33·0	1·44·06	1·43·51	1·43·17	1·43·67	1·43.84	1·44·07	1·44.10	1·44·44	1·44·97	1·44·69	1·44·86	1·44·16
38·0	1·44·12	1·43·27	1·43·17	1·43·67					1·45·11	1·44·69	1·44·43	1·44·58
43·0	1·44·02	1·43·41	1·42·93	1·43·67					1·45·04	1·44·66	1·44·30	1·44·37
48·0	1·43·95	1·43·44	1·43·29	1·43·46					1·45·11	1·44·62	1·44·44	1·44·23
53·0	1·43·99	1·43·17	1·43·72	1·43·60					1·44·90	1·44·42	1·44·37	1·44·37
58·0	1·43·95	1·43·20	1·43·70	1·43·60					1·44·90	1·44·42	1·44·30	1·44·24

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′111	15′004	15′211	14′936	13′562	12′635	12′188	12′326	13′871	14′592	14′867	14′213	14′936
5·0	14·042	14·728	15·245	14·936	13·562					14·592	14·728	14·145	14·660
10·0	14·351	14·901	15·382	14·901	13·562					14·592	14·728	14·008	14·523
15·0	14·505	14·832	15·416	14·592	13·493					14·660	14·728	13·974	14·454
20·0	14·557	14·936	15·450	14·592	13·425					14·660	14·728	14·042	14·317
25·0	14·660	15·004	15·348	14·592	13·219					14·798	15·004	14·042	14·266
30·0	14·867	14·970	15·280	14·351	13·219	12·188	11·913	13·013	14·386	14·798	15·004	14·317	14·317
35·0	14·936	15·004	15·280	14·076	13·219					14·728	14·798	14·523	14·526
40·0	14·901	15·074	15·280	14·008	13·219					14·728	14·592	14·798	14·694
45·0	14·798	15·074	15·245	13·940	13·115					14·798	14·523	15·038	14·867
50·0	14·728	15·176	14·936	13·906	13·013					14·867	14·403	15·038	15·004
55·0	14·728	15·280	14·936	13·837	12·703					14·867	14·317	15·108	15·004

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·290	19·500	19·500	19·750	19·700	19·550	19·200	18·900	18·170	17·570	16·945	16·350	16·260
7·0	19·260	19·500	19·510	19·750	19·700					17·530	16·850	16·310	16·210
12·0	13·285	19·505	19·530	19·800	19·750					13·460	16·770	16·300	15·995
17·0	19·375	19·465	19·530	19·750	19·740					17·440	16·740	16·290	15·840
22·0	19·440	19·430	19·550	19·750	19·740					17·380	16·710	16·180	15·680
27·0	19·490	19·450	19·600	19·800	19·650					17·130	16·610	16·120	15·520
32·0	19·452	19·450	19·620	19·775	19·690	19·450	19·315	18·600	17·800	17·040	16·580	16·080	15·405
37·0	19·475	19·460	19·650	19·760	19·650					17·030	16·550	16·080	15·310
42·0	19·450	19·435	19·700	19·750	19·650					17·000	16·510	16·120	15·260
47·0	19·520	19·435	19·700	19·750	19·600					16·980	16·480	16·150	15·260
52·0	19·430	19·440	19·750	19·800	19·600					16·950	16·410	16·240	15·260
57·0	19·400	19·460	19·750	19·750	19·600					16·945	16·390	16·295	15·210
Therm.	75°9	75°5	76°0	78°0	79°9	81°8	83°7	84°5	85°2	85°2	85°0	83°9	82°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·30·50	4·15·90	4·08·90	3·04·50	2·27·50					3·32·50	3·25·00	3·18·00	3·23·30
8·0	4·30·50	4·15·90	4·08·90	3·04·50	2·27·50					3·32·50	3·25·00	3·18·00	3·15·10
13·0	4·30·50	4·15·90	4·00·10	2·45·10	2·21·25					3·36·00	3·30·00	3·18·00	3·15·10
18·0	4·37·10	4·15·90	4·09·10	2·45·10	2·21·25					3·37·50	3·27·50	3·18·00	3·15·10
23·0	4·37·10	4·15·90	3·45·00	2·40·00	2·21·25					3·37·50	3·25·50	3·24·60	3·22·30
28·0	4·37·10	4·15·90	3·39·20	2·40·00	2·21·25	2·18·90		3·10·5	3·32·50	3·48·50	3·30·00	3·24·60	3·22·30
33·0	4·26·90	4·15·90	3·33·20	2·40·00	2·21·25					3·48·50	3·30·00	3·31·00	3·31·00
38·0	4·26·20	4·15·90	3·26·15	2·32·20	2·12·85					3·34·00	3·23·00	3·31·00	3·31·00
43·0	4·26·20	4·15·90	3·26·25	2·32·20	2·12·85					3·34·00	3·18·00	3·31·00	3·40·60
48·0	4·22·20	4·15·90	3·16·00	2·32·20	2·12·85					3·34·00	3·13·00	3·31·00	3·40·60
53·0	4·22·20	4·15·90	3·16·00	2·27·50	2·12·85					3·28·50	3·18·00	3·31·00	3·40·60
58·0	4·22·20	4·08·90	3·16·00	2·27·50	2·12·85	2·21·50	2·39·85	3·24·50	3·32·50	3·25·00	3·18·00	3·23·30	3·40·60
Therm.	78°1	76°9	76°5	77°0	78°2	80°0	82°0	83°5	84°0	84°5	84°7	84°3	83°8

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14′35	14′83	14′40	13′16	12′26	11′85	11·85	13′36	14′30	14′40	13′83	14′47
5·0	14·40	14·88	14·40	13·16					14·30	14·20	13·52	14·40
10·0	14·40	14·88	14·40	13·16					14·30	14·30	13·42	13·99
15·0	14·47	14·88	14·35	12·90					14·20	14·35	13·42	13·94
20·0	14·47	14·88	14·20	12·90					14·25	14·35	13·42	13·88
25·0	14·47	14·93	13·99	12·90					14·35	14·35	13·42	13·62
30·0	14·47	14·93	13·83	12·78		11·38	12·47	13·88	14·40	14·30	13·42	13·62
35·0	14·47	14·93	13·78	12·78					14·35	14·30	13·62	13·57
40·0	14·47	14·93	13·52	12·52					14·35	14·04	13·88	13·57
45·0	14·52	14·73	13·47	12·37					14·35	13·88	13·99	13·88
50·0	14·67	14·57	13·42	12·37					14·40	13·83	14·20	13·94
55·0	14·83	14·47	13·31	12·31					14·40	13·83	14·25	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	7·500	7·380	7·280	7·300	6·920	5·995	5·800	5·500	5·280	4·620	4·190	4·090
7·0	7·510	7·310	7·270	7·290					5·220	4·600	4·180	3·980
12·0	7·510	7·300	7·280	7·300					5·170	4·490	4·100	3·890
17·0	7·500	7·290	7·230	7·290					5·090	4·480	4·020	3·860
22·0	7·500	7·280	7·270	7·280					5·020	4·390	3·900	3·910
27·0	7·500	7·260	7·280	7·290					4·900	4·390	3·890	3·970
32·0	7·520	7·250	7·290	7·250	6·350	6·140	5·540	5·400	4·840	4·320	3·800	3·800
37·0	7·490	7·270	7·320	7·220					4·780	4·300	3·800	3·710
42·0	7·460	7·290	7·310	7·180					4·700	4·310	3·790	3·590
47·0	7·390	7·290	7·300	7·110					4·690	4·300	3·860	3·410
52·0	7·350	7·290	7·310	7·090					4·640	4·220	3·920	3·330
57·0	7·370	7·300	7·300	7·000					4·630	4·200	3·980	3·290
Therm.	72°2	73°6	74°0	75°6	77°6	80°0	82°2	83°8	83°8	83°8	82°2	81°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°43′32	1°43′53	1°43′55	1°42′89	1°43′26	1°43′67	1°43′80	1°43′92	1°43′78	1°43′77	1°43′83	1°43′84
8·0	1·43·05	1·43·57	1·43·55	1·42·89					1·43·78	1·43·63	1·43·77	1·43·56
13·0	1·43·22	1·43·70	1·43·51	1·43·32					1·43·78	1·43·63	1·43·63	1·43·42
18·0	1·43·15	1·43·76	1·43·20	1·43·25					1·43·85	1·43·63	1·43·73	1·43·35
23·0	1·43·26	1·43·77	1·43·20	1·43·19					1·43·85	1·43·63	1·43·80	1·43·65
28·0	1·43·32	1·43·67	1·43·20	1·43·13					1·43·99	1·43·90	1·43·80	1·43·60
33·0	1·43·29	1·43·60	1·43·25	1·43·13	1·43·67	1·43·39	1·44·06	1·44·15	1·43·84	1·43·90	1·44·22	1·43·65
38·0	1·43·32	1·43·60	1·42·98	1·43·13					1·43·77	1·43·70	1·44·28	1·43·85
43·0	1·43·39	1·43·75	1·42·97	1·43·13					1·43·77	1·43·49	1·44·56	1·44·02
48·0	1·43·39	1·43·72	1·42·98	1·43·44					1·43·70	1·43·56	1·44·80	1·43·63
53·0	1·43·50	1·43·41	1·42·94	1·43·34					1·43·77	1·43·44	1·44·80	1·43·76
58·0	1·43·60	1·43·41	1·42·88	1·43·32					1·43·77	1·43·36	1·44·87	1·43·76

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH FEBRUARY, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′974	14′317	15′211	15′623	15′280	14′936	13′664	13′219	13′287	13′940	15′318	14′249	13′562
5·0	14·179	14·266	15·280	15·450	15·211					13·906	15·691	14·249	13·562
10·0	13·802	14·592	15·348	15·198	15·280					13·837	15·553	14·008	13·700
15·0	13·906	14·626	15·623	15·553	15·211					13·974	15·485	13·906	13·837
20·0	14·145	14·660	15·553	15·828	15·108					14·249	15·280	13·974	14·042
25·0	14·162	14·798	15·348	15·280	15·108					14·454	15·074	13·974	14·213
30·0	13·974	15·004	15·280	15·280	14·936	14·660	12·944	13·219	14·249	14·523	14·798	13·974	14·523
35·0	13·802	15·004	15·280	15·314	15·004					14·626	14·592	13·734	14·660
40·0	13·974	15·038	15·382	15·280	15·004					14·660	14·523	13·562	14·660
45·0	14·283	15·004	15·280	15·382	14·936					14·798	14·420	13·425	14·523
50·0	14·249	15·280	15·623	15·211	14·936					15·074	14·317	13·425	14·351
55·0	14·249	15·314	15·623	15·211	14·936					15·211	14·111	13·562	14·351

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·400	18·350	18·465	18·800	19·010	19·000	19·400	19·340	18·810	18·230	17·220	17·550	16·845
7·0	18·345	18·305	18·575	18·850	19·000					18·230	17·280	17·542	16·755
12·0	18·275	18·335	18·570	18·850	19·000					18·220	17·360	17·550	16·660
17·0	18·230	18·295	18·625	18·850	19·000					18·060	17·410	17·490	16·720
22·0	18·260	18·290	18·700	18·950	19·000					17·900	17·370	17·445	16·750
27·0	18·240	18·255	18·760	19·000	19·000					17·760	17·420	17·345	16·700
32·0	18·255	18·275	18·810	19·050	19·100	19·200	19·600	19·100	18·470	17·650	17·450	17·250	16·580
37·0	19·300	18·340	18·850	19·050	19·050					17·500	17·460	17·210	16·570
42·0	18·300	18·350	18·850	19·000	19·000					17·400	17·500	17·190	16·530
47·0	18·330	18·395	18·800	19·000	19·950					17·290	17·530	17·150	16·610
52·0	18·370	18·430	18·750	19·000	19·000					17·200	17·550	16·940	16·650
57·0	18·330	18·490	18·800	19·050	19·000					17·160	17·540	16·940	16·595
Therm.	76°1	75°9	76°3	78°2	79°5	80°2	80°9	81°2	82°0	82°4	82°4	81°3	80°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	4·35·80	5·03·45	4·46·00	4·35·85	4·10·00					3·28·50	4·05·95	3·35·70	4·21·10
8·0	4·42·40	5·03·45	4·46·00	4·35·85	4·10·00					3·28·50	4·07·00	3·35·70	4·21·10
13·0	4·42·40	5·03·45	4·46·00	4·35·85	3 49·00					3·28·50	4·01·50	3·35·70	4·30·20
18·0	5·01·10	5·03·45	4·41·80	4·30·50	3·49·00					3·35·00	3·49·00	3·35·70	4·30·20
23·0	5·01·10	5·03·45	4·35·85	4·30·50	3·49·00					3·42·50	3·44·00	3·43·20	4·30·20
28·0	5·01·10	5·03·45	4·35·85	4·16·30	3·37·00	3·30·40		3·26·00	3·49·00	3·45·50	3·39·50	4·00·60	4·43·30
33·0	4·45·00	5·03·45	4·35·85	4·16·30	3·37·00					3·48·00	3·33·00	4·00·60	4·48·80
38·0	4·45·00	5·03·45	4·35·85	4·16·30	3·30·40					3·49·00	3·29·20	4·00·60	4·48·80
43·0	4·45·00	5·03·45	4·35·85	4·16·30	3·30·40					4·01·00	3·29·20	4·10·60	4·41·00
48·0	4·45·00	4·46·00	4·35·85	4·16·30	3·30·40					4·01·00	3·29·20	4·00·60	4·41·00
53·0	4·45·00	4·46·00	4·35·85	4·16·30	3·30·40					4·05·00	3·29·20	4·13·30	4·34·80
58·0	5·03·45	4·46·00	4·35·85	4·10·00	3·30·40	2·48·50	3·23·00	3·23·00	3·28·50	4·05·50	3·29·20	4·21·10	4·34·80
Therm.	78°5	77°3	77°1	77°5	78°4	79°0	79°5	80°0	80°7	81°7	82°0	81°9	80°9

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13′94	14′93	15′09	14′99	14′57	13′42	12′68	12′48	13′42	14′47	13′68	13′16
5·0	13·99	14·93	15·04	14·99					13·42	14·88	13·62	13·26
10·0	14·20	14·93	15·04	14·93					13·31	14·99	13·57	13·31
15·0	14·40	14·99	15·04	14·93					13·36	14·93	13·52	13·42
20·0	14·40	14·99	15·25	14·83					13·88	14·93	13·42	13·62
25·0	14·47	14·93	15·09	14·67					13·94	14·47	13·42	13·88
30·0	14·52	14·88	14·99	14·67	13·47	12·42	12·83	13·52	13·94	14·25	13·42	13·99
35·0	14·52	14·99	14·99	14·62					13·99	14·09	13·42	14·14
40·0	14·57	14·99	15·04	14·73					14·04	13·88	13·26	14·20
45·0	14·73	15·04	15·04	14·73					14·04	13·78	13·05	14·20
50·0	14·78	15·14	15·04	14·62					14·09	13·73	12·90	13·99
55·0	14·88	15·14	15·04	14·73					14·40	13·62	12·90	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
2·0	6·190	6·200	6·490	6·700	6·800	7·095	7·190	6·790	6·100	4·790	5·250	4·490
7·0	6·190	6·210	6·500	6·700					6·090	4·900	5·230	4·400
12·0	6·150	6·280	6·540	6·700					5·980	5·000	5·250	4·350
17·0	6·160	6·300	6·590	6·760					5·820	5·020	5·290	4·390
22·0	6·170	6·390	6·650	6·710					5·690	5·030	5·170	4·470
27·0	6·170	6·490	6·700	6·780					5·480	5·090	5·090	4·400
32·0	6·170	6·500	6·750	6·800	6·850	7·460	6·970	6·320	5·290	5·100	5·000	4·320
37·0	6·180	6·540	6·790	6·820					5·120	5·150	4·900	4·280
42·0	6·190	6·580	6·700	6·790					5·000	5·200	4·860	4·260
47·0	6·190	6·490	6·690	6·720					4·890	5·200	4·720	4·190
52·0	6·200	6·440	6·690	6·780					4·790	5·240	4·600	4·280
57·0	6·200	6·480	6·700	6·790					4·710	5·200	4·560	4·350
Therm.	72°2	73°8	74°4	76°0	77°8	78°0	79°8	79°8	78°4	78°3	78°2	77°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
3·0	1°43′36	1°43′82	1°44′09	1°43′75	1°43′41	1°42′99	1°43′27	1°43′34	1°43′70	1°44′11	1°44′01	1°43′61
8·0	1·43·31	1·43·89	1·43·92	1·43·68					1·43·66	1·44·45	1·44·01	1·43·61
13·0	1·43·63	1·43·96	1·43·66	1·43·75					1·43·60	1·44·31	1·43·77	1·43·75
18·0	1·44·58	1·44·23	1·44·02	1·43·68					1·43·73	1·44·25	1·43·67	1·43·89
23·0	1·44·56	1·44·16	1·44·30	1·43·57					1·44·01	1·44·04	1·43·88	1·44·09
28·0	1·44·70	1·43·96	1·43·75	1·43·58					1·44·21	1·43·83	1·43·88	1·43·97
33·0	1·44·76	1·43·89	1·43·75	1·43·41	1·43·27	1·42·99	1·43·13	1·43·44	1·44·28	1·43·56	1·43·88	1·44·28
38·0	1·44·76	1·43·89	1·43·78	1·43·47					1·44·39	1·43·63	1·43·64	1·44·42
43·0	1·44·79	1·43·99	1·43·75	1·43·47					1·44·42	1·43·56	1·43·61	1·44·42
48·0	1·44·76	1·43·89	1·43·85	1·43·41					1·43·70	1·44·04	1·43·48	1·44·28
53·0	1·45·04	1·44·23	1·43·68	1·43·41					1·43·97	1·43·94	1·43·48	1·44·11
58·0	1·45·07	1·44·09	1·43·68	1·43·41					1·43·97	1·43·73	1·43·61	1·44·11

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH FEBRUARY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14'008	13'630	14'728	14'970	14'592	14'592	14'249	14'317	14'936	14'728	14'936	15'004	14'592
5·0	14·213	13·906	15·004	15·004	14·351					14·592	15·074	15·074	14·592
10·0	14·145	14·042	15·211	15·004	14·249					14·798	15·142	15·074	14·592
15·0	14·042	14·111	15·348	14·832	14·592					14·798	15·142	15·074	14·592
20·0	13·940	14·179	15·485	14·970	14·249					14·798	15·211	14·936	14·592
25·0	13·871	14·386	15·519	15·004	14·523					14·798	15·280	14·867	14·626
30·0	13·734	14·179	15·314	14·970	14·592	14·592	14·523	14·523	14·660	14·798	15·280	14·798	14·626
35·0	13·700	14·249	15·280	14·523	14·592					14·936	15·074	14·728	14·660
40·0	13·562	14·464	15·280	14·420	14·728					14·936	15·074	14·694	14·660
45·0	13·734	14·557	15·280	14·523	14·936					14·936	15·074	14·592	14·592
50·0	13·802	14·660	15·348	14·592	14·592					15·004	15·074	14·592	14·557
55·0	13·802	14·660	15·348	14·592	14·592					15·004	15·004	14·557	14·557

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·765	18·670	18·820	18·800	18·950	18·400	18·350	18·270	17·620	17·450	17·350	17·750	17·730
7·0	18·700	18·655	18·800	18·800	18·850					17·440	17·410	17·755	17·750
12·0	18·760	18·680	18·760	18·800	18·900					17·460	17·450	17·815	17·740
17·0	18·625	18·720	18·750	18·850	18·850					17·470	17·600	17·815	17·750
22·0	18·750	18·775	18·700	18·805	18·800					17·510	17·740	17·780	17·750
27·0	18·695	18·755	18·655	18·805	18·700					17·560	17·790	17·750	17·805
32·0	18·695	18·810	18·655	18·900	18·550	18·460	18·460	18·000	17·500	17·500	17·740	17·750	17·915
37·0	18·670	18·840	18·650	18·950	18·550					17·450	17·730	17·762	17·955
42·0	18·585	18·830	18·675	19·010	18·300					17·400	17·735	17·760	17·905
47·0	18·570	18·840	18·700	19·000	18·425					17·360	17·750	17·760	17·990
52·0	18·555	18·800	18·780	19·000	18·500					17·300	17·750	17·760	17·930
57·0	18·565	18·770	18·750	18·950	18·500					17·340	17·710	17·750	17·930
Therm.	74°8	74°9	75°5	77°0	79°0	80°0	80°0	80°3	81°3	81°3	81°5	80°2	79°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·47·50	5·29·60	5·38·10	5·14·00	4·38·30					3·01·0	3·00·00	3·08·70	3·17·10
8·0	5·47·50	5·34·50	5·38·10	5·14·00	4·38·30					3·02·0	3·04·00	3·13·20	3·25·50
13·0	5·47·50	5·34·50	5·38·10	5·14·00	4·28·00					3·06·5	3·04·00	3·13·20	3·25·50
18·0	5·47·50	5·34·50	5·38·10	5·14·00	4·28·00					3·06·5	3·04·00	3·13·20	3·25·50
23·0	5·47·50	5·34·50	5·38·10	5·14·00	4·28·00					3·01·0	3·04·00	3·13·20	3·32·00
28·0	5·38·40	5·34·50	5·38·10	5·14·00	4·28·00	4·37·20		3·07·75	2·45·80	3·01·0	3·04·00	3·13·20	3·32·00
33·0	5·38·40	5·34·50	5·24·70	4·46·40	4·47·00					3·01·0	3·04·00	3·13·20	3·32·00
38·0	5·28·40	5·34·50	5·24·70	4·46·40	4·47·00					3·05·00	3·04·00	3·13·20	3·32·00
43·0	5·23·00	5·34·50	5·24·70	4·38·30	4·47·00					3·05·00	3·04·00	3·07·60	3·32·00
48·0	5·23·00	5·34·50	5·24·70	4·38·30	4·47·00					3·05·00	3·04·00	3·07·60	3·26·50
53·0	5·29·60	5·38·10	5·24·70	4·38·30	4·29·00					3·06·00	3·04·00	3·07·60	3·26·50
58·0	5·29·60	5·38·10	5·24·70	4·38·30	4·29·00	4·37·20	3·07·75	3·11·90	3·01·0	3·00·00	3·08·70	3·17·10	3·26·50
Therm.	76°7	75°9	75°5	76°2	77°5	78°5	78°6	79°4	80°1	80°9	81°5	81°0	80°3

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH FEBRUARY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13'10	14'20	14'47	13'88	13'94	13'68	13'73	14'35	14'09	14'40	14'40	13'94
5·0	13·36	14·35	14·40	13·53					14·09	14·47	14·40	13·99
10·0	13·36	14·47	14·40	13·83					14·20	14·47	14·35	13·99
15·0	13·47	14·52	14·35	13·78					14·04	14·52	14·47	13·94
20·0	13·78	14·62	14·47	13·73					14·04	14·62	14·40	13·99
25·0	13·78	14·73	14·47	13·73					14·25	14·88	14·40	14·14
30·0	13·78	14·52	14·47	13·99	13·78	13·68	13·88	13·94	14·25	14·88	14·35	14·20
35·0	13·88	14·47	14·20	14·04					14·40	14·52	14·20	14·20
40·0	13·88	14·47	13·99	14·04					14·40	14·52	13·99	14·25
45·0	13·99	14·47	13·94	14·20					14·40	14·47	13·99	13·99
50·0	14·09	14·52	13·94	14·09					14·40	14·47	13·94	13·94
55·0	13·99	14·52	13·94	13·94					14·40	14·47	13·94	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	6·590	6·590	6·390	6·600	6·170	5·665	5·600	5·000	4·780	4·610	5·170	5·290
7·0	6·560	6·540	6·390	6·550					4·780	4·650	5·100	5·300
12·0	6·600	6·500	6·460	6·500					4·690	4·790	5·190	5·340
17·0	6·600	6·460	6·490	6·490					4·690	4·890	5·280	5·360
22·0	6·620	6·380	6·880	6·500					4·700	4·960	5·270	5·390
27·7	6·650	6·350	6·400	6·540					4·790	5·080	5·230	5·470
32·0	6·600	6·300	6·490	6·470	5·850	5·810	5·270	4·880	4·820	5·090	5·280	5·500
37·0	6·670	6·290	6·560	6·410					4·740	5·020	5·260	5·590
42·0	6·740	6·290	6·630	6·390					4·690	5·050	5·290	5·640
47·0	6·800	6·260	6·700	6·320					4·620	5·120	5·300	5·690
52·0	6·750	6·340	6·650	6·270					4·500	5·190	5·300	5·640
57·0	6·640	6·380	6·630	6·200					4·510	5·240	5·370	5·600
Therm.	71°8	71°9	72°2	74°0	75°8	77°0	78°0	78°2	78°0	78°0	77°9	76°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°42'53	1°43'34	1°43'44	1°43'20	1°43'06	1°42'86	1°43'07	1°43'41	1°43'34	1°43'55	1°43'47	1°43'35
8·0	1·42·80	1·43·61	1·43·47	1·42·96					1·43·20	1·43·68	1·43·54	1·43·35
13·0	1·42·94	1·43·82	1·43·47	1·42·86					1·43·41	1·43·75	1·43·54	1·43·35
18·0	1·42·87	1·43·82	1·43·30	1·43·35					1·43·41	1·43·75	1·43·54	1·43·35
23·0	1·42·94	1·43·95	1·43·44	1·43·01					1·43·41	1·43·82	1·43·41	1·43·35
28·0	1·43·15	1·43·84	1·43·47	1·43·28					1·43·56	1·43·89	1·43·54	1·43·38
33·0	1·42·94	1·43·63	1·43·44	1·43·34	1·43·20	1·43·13	1·43·28	1·43·13	1·43·56	1·43·89	1·43·27	1·43·38
38·0	1·43·01	1·43·60	1·42·84	1·43·20					1·43·70	1·43·68	1·43·20	1·43·42
43·0	1·43·21	1·43·75	1·43·03	1·43·34					1·43·54	1·43·68	1·43·20	1·43·42
48·0	1·43·32	1·43·75	1·43·13	1·43·54					1·43·54	1·43·54	1·43·20	1·43·49
53·0	1·43·27	1·43·82	1·43·20	1·43·20					1·43·61	1·43·54	1·43·20	1·43·46
58·0	1·43·27	1·43·82	1·43·20	1·43·20					1·43·61	1·43·47	1·43·17	1·43·46

TERM HOUR OBSERVATIONS ON THE 28TH FEBRUARY AND 1ST MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′403	14′660	15′485	15′280	14′249	12′876	12′222	12′222	12′050	12′738	13′700	13′425	13′389
5·0	14·523	14·832	15·450	15·280	14·076					12·755	13·579	13·425	13·287
10·0	14·557	15·004	15·553	15·280	13·906					13·081	13·562	13·562	13·355
15·0	14·574	15·108	15·553	15·211	13·837					13·013	13·562	13·627	13·253
20·0	14·832	14·936	15·623	14·970	13·700					13·115	13·493	13·493	13·253
25·0	14·728	15·280	15·623	14·936	13·219					13·355	13·664	13·425	13·287
30·0	14·694	15·108	15·623	14·867	13·287	12·533	12·533	12·256	12·256	13·442	13·425	13·253	13·287
35·0	14·592	15·280	15·623	14·762	13·355					13·493	13·562	13·253	13·355
40·0	14·660	15·215	15·553	14·762	13·287					13·630	13·562	13·355	13·355
45·0	14·660	15·245	15·348	14·420	13·047					13·596	13·630	13·562	13·493
50·0	14·798	15·176	15·280	14·283	12·944					13·493	13·630	13·425	13·630
55·0	14·867	15·280	15·280	14·249	12·920					13·630	13·562	13·355	13·700

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·500	18·740	18·995	19·150	19·250	19·200	19.055	18·890	19·405	19·510	18·900	18·440	18·435
7·0	18·540	18·750	19·004	19·200	19·250					19·477	18·922	18·410	18·395
12·0	18·575	18·760	19·050	19·250	19·250					19·187	18·910	18·430	18·245
17·0	18·620	18·785	19·050	19·250	19·250					19·097	18·900	18·600	18·270
22·0	18·665	18·790	19·050	19·300	19·275					19·077	18·842	18·600	18·200
27·0	18·710	18·810	19·115	19·290	19·297					18·932	18·985	18·620	18·055
32·0	18·705	18·790	19·100	19·260	19·205	19·150	18·950	18·810	19.375	18·975	18·685	18·690	17·950
37·0	18·710	18·825	19·150	19·250	19·240					18·947	18·550	18·615	17·850
42·0	18·725	18·847	19·110	19·250	19·235					18·815	18·550	18·590	17·700
47·0	18·700	18·875	19·150	19·250	19·245					18·915	18·460	18·440	17·610
52·0	18 665	18·925	19·150	19·300	19·245					18·920	18·345	18·430	17·470
57·0	18·680	18·970	19·180	19·300	19·220					18·985	18·400	18·395	17·350
Therm.	76°9	76°8	77°0	79°0	81°0	82°0	82°8	83°0	83°3	83°3	83°3	82°5	81°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·40·00	4·42·00	4·19·70	3·07·90	1·37·70					4·19·10	4·26·55	4·04·60	4·23·80
8·0	4·40·00	4·42·00	4·12·70	3·06·00	1·37·70					4·32·00	4·25·10	4·04·60	4·23·80
13·0	4·46·90	4·42·00	4·12·70	3·06·00	1·27·60					4·41·90	4·20·75	4·04·60	4·23·80
18·0	5·03·80	4·42·00	4·12·70	2·39·00	1·27·60					4·41·10	4·17·80	4·04·60	4·23·80
23·0	5·03·30	4·42·00	3·49·85	2·39·00	1·44·00					4·37·40	4·17·80	4·04·60	4·33·00
28·0	4·47·50	4·42·00	3·49·85	2·39·00	1·44·00	1·36·00	2·37·50	3·20·50	3·44·80	4·44·25	4·14·95	4·04·60	4·42·00
33·0	4·42·00	4·36·50	3·38·75	2·29·20	1·41·30					4·42·85	4·14·95	4·04·60	4·42·00
38·0	4·42·00	4·36·50	3·38·75	2·29·20	1·41·30					4·42·85	4·22·30	4·16·00	5·01·60
43·0	4·42·00	4·36·50	3·30·00	2·29·20	1·41·30					4·42·85	4·22·30	4·23·80	5·07·90
48·0	4·42·00	4·27·20	3·30·00	2·29·20	1·41·30					4·34·65	4·22·30	4·23·80	5·07·90
53·0	4·42·00	4·25·90	3·18·75	1·43·00	1·41·30					4·34·65	4·17·10	4·23·80	5·16·80
58·0	4·42·00	4·19·70	3·18·75	1·37·70	1·36·00	2·02·25	3·03·35	3·09·70	4·20·45	4·35·00	4·04·60	4·23·80	5·16·80
Therm.	79°3	78°0	77°8	78°2	79°5	80°3	81°3	82°0	82°5	83°2	83°7	83°4	83°0

TERM HOUR OBSERVATIONS ON THE 28TH FEBRUARY AND 1ST MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14'04	14'57	14'47	13'68	12'37	11'85	11'85	11'43	11'90	12'95	12'78	12'78
5·0	13·99	14·62	14·47	13·68					11·90	12·90	12·78	12·63
10·0	14·20	14·62	14·40	13·47					11·85	12·95	12·90	12·37
15·0	14·20	14·78	14·40	13·36					12·05	12·90	12·78	12·31
20·0	14·25	14·73	14·35	13·00					12·42	12·83	12·68	12·42
25·0	14·35	14·78	14·35	12·90					12·57	12·88	12·57	12·42
30·0	14·40	14·67	14·30	12·90	12·11	11·88	11·85	11·85	12·83	12·83	12·42	12·63
35·0	14·47	14·67	14·14	12·90					12·95	12·90	12·42	12·52
40·0	14·47	14·67	13·99	12·78					13·00	12·90	12·68	12·73
45·0	14·47	14·62	13·99	12·63					13·05	12·95	12·83	12·90
50·0	14·47	14·62	13·88	12·42					12·95	12·95	12·88	12·90
55·0	14·52	14·52	13·78	12·37					12·90	12·90	12·78	12·95

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	6·400	6·300	6·590	6·450	6·500	6·405	6·330	6·920	7·190	6·520	6·170	6·280
7·0	6·450	6·320	6·590	6·500					7·200	6·600	6·220	6·350
12·0	6·440	6·320	6·620	6·500					7·180	6·640	6·190	6·280
17·0	6·400	6·340	6·650	6·470					7·240	6·590	6·280	6·200
22·0	6·450	6·340	6·620	6·500					7·140	6·600	6·370	6·190
27·0	6·470	6·420	6·600	6·540					7·000	6·520	6·490	6·090
32·0	6·470	6·490	6·590	6·490	6·400	6·350	6·250	6·960	6·890	6·480	6·540	6·000
37·0	6·400	6·490	6·540	6·440					6·710	6·340	6·560	5·900
42·0	6·400	6·500	6·500	6·450					6·650	6·290	6·500	5·800
47·0	6·400	6·580	6·490	6·490					6·540	6·240	6·400	5·710
52·0	6·390	6·500	6·500	6·470					6·470	6·160	6·310	5·630
57·0	6·350	6·570	6·470	6·490					6·590	6·090	6·300	5·520
Therm.	74°0	74°2	75°3	76°4	78°2	80°0	80°8	81°6	82°0	81°8	80°4	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°42'92	1°43'80	1°42'88	1°42'85	1°42'63	1°42'27	1°42'55	1°42'38	1°42'78	1.42.74	1°42'32	1°42'28
8·0	1·43·15	1·43·77	1·43·60	1·42·83					1.42.80	1.42.61	1·42·32	1·42·18
13·0	1·43·32	1·43·87	1·43·60	1·42·66					1·42·13	1·42·60	1·42·46	1·42·25
18·0	1·43·42	1·43·44	1·43·53	1·42·73					1·42·77	1·42·60	1·42·42	1·42·15
23·0	1·43·11	1·49·51	1·43·29	1·42·60					1·42·87	1·42·53	1·42·39	1·42·15
28·0	1·43·46	1·44·95	1·43·25	1·42·11					1·43·11	1·42·70	1·42·32	1·42·18
33·0	1·43·28	1·43·22	1·43·33	1·42·13	1·42·58	1·42·58	1·42·58	1·42·80	1·42·77	1·42·16	1·42·15	1·42·18
38·0	1·43·17	1·43·22	1·43·23	1·42·68					1·42·82	1·42·60	1·42·15	1·42·25
43·0	1·43·134	1·43·15	1·43·23	1·42·61					1·42·82	1·42·60	1·42·25	1·42·25
48·0	1·43·13	1·42·94	1·43·03	1·42·37					1·42·78	1·42·67	1·42·46	1·42·39
53·0	1·43·06	1·42·88	1·42·89	1·42·27					1·42 68	1·42·67	1·42·32	1·42·39
58·0	1·43·17	1·42·88	1·42·85	1·42·68					1·42·67	1·42·60	1·42·25	1·42·46

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14·145	15·142	16·240	16·309	15·966	14·628	13·081	12·635	12·910	13·562	13·940	14·249	13·974
5·0	14·111	15·660	16·172	16·309	15·966					13·562	13·974	14·317	13·974
10·0	14·213	15·176	16·206	16·309	15·553					13·562	13·974	14·454	13·974
15·0	14·145	15·280	16·447	16·309	15·553					13·562	14·009	14·454	13·974
20·0	13·249	15·382	16·343	16·309	15·623					13·700	14·042	14·386	13·906
25·0	14·454	15·416	16·240	16·309	15·623					13·734	14·145	14·420	13·940
30·0	14·317	15·485	16·309	16·034	15·365	13·906	12·876	12·533	13·389	13·837	14·076	14·454	13·906
35·0	14·592	15·623	16·309	16·034	15·211					13·871	14·076	14·317	13·906
40·0	14·936	15·897	16·378	15·966	15·108					13·906	14·076	14·249	13·906
45·0	14·762	15·966	16·584	15·966	15·108					13·906	14·111	14·249	13·940
50·0	14·523	15·966	16·312	15·966	14·867					13·906	14·111	14·111	13·940
55·0	14·762	16·102	16·309	15·966	14·936					13·940	14·249	13·974	13·940

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·925	18·050	18·160	18·200	18·100	18·100	18·150	17·855	17·700	17·465	17·430	17·550	17·590
7·0	17·985	18·110	18·175	18·200	18·202					17·465	17·450	17·520	17·590
12·0	18·025	18·115	18·210	18·175	18·300					17·460	17·455	17·560	17·580
17·0	17·990	18·170	18·190	18·225	18·300					17·465	17·480	17·590	17·590
22·0	18·010	18·090	18·110	18·250	18·255					17·465	17·460	17·590	17·605
27·0	17·995	18·015	18·130	18·200	18·200					17·450	17·480	17·590	17·610
32·0	18·020	18·165	18·200	18·200	18·200	18·150	18·110	17·800	17·550	17·450	17·500	17·590	17·605
37·0	18·025	18·180	18·200	18·165	18·200					17·410	17·510	17·610	17·605
42·0	18·030	18·205	18·150	18·150	18·155					17·450	17·530	17·620	17·595
47·0	18·045	18·190	18·200	18·150	18·025					17·440	17·520	17·610	17·595
52·0	18·040	18·160	18·200	18·150	18·000					17·440	17·520	17·610	17·590
57·0	18·050	18·160	18·259	18·100	18·050					17·440	17·520	17·600	17·570
Therm.	77°6	77°7	79°0	81°0	82°4	83°9	83°9	84°2	84°4	84°6	84°2	83°2	82°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	6·05·40	6·06·70	5·35·30	4·30·00	2·25·75					4·12·85	4·39·40	4·47·60	5·08·70
8·0	6·28·60	6·06·70	5·27·50	4·30·00	3·09·75					4·16·60	4·39·40	5·02·60	5·13·50
13·0	6·25·10	6·06·70	5·22·10	4·21·65	2·46·90					4·16·60	4·39·40	5·02·60	5·13·50
18·0	6·25·10	6·06·70	5·27·50	4·14·00	3·04·50					4·19·55	4·39·40	5·02·60	5·13·50
23·0	6·15·10	6·02·30	5·18·70	4·14·00	3·04·50					4·19·55	4·39·40	5·02·60	5·13·50
28·0	6·06·70	6·02·30	5·18·70	4·14·00	3·01·00	2·05·00	2·10·00	3·14·30	4·09·60	4·22·10	4·39·40	5·02·60	5·13·50
33·0	6·06·70	6·02·30	5·01·60	4·04·60	2·44·00					4·23·50	4·40·65	5·02·60	5·19·00
38·0	6·06·70	5·46·30	5·01·60	4·04·60	2·36·50					4·27·40	4·40·65	5·02·60	5·19·00
43·0	6·06·70	5·46·30	5·01·60	3·46·00	2·36·50					4·27·40	4·40·65	5·02·60	5·19·00
48·0	6·06·70	5·46·30	4·39·00	3·41·70	2·36·50					4·30·85	4·40·65	5·02·60	5·19·00
53·0	6·06·70	5·38·50	4·39·00	3·41·70	2·36·50					4·30·85	4·47·60	5·02·60	5·19·00
58·0	6·06·70	5·35·30	4·30·00	3·32·50	2·20·00	1·48·00	2·40·65	3·40·00	4·12·85	4·34·05	4·47·60	5·08·70	5·19·00
Therm.	80°5	79°3	79°4	80°1	81°3	82°5	82°7	83°3	83°9	84°5	85°2	84°7	83°8

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13'42	15'30	15'66	15'35	13'94	12'37	11'90	12'37	12'83	13'26	13'42	13'16
5·0	13·62	15·45	15·61	15'19					12·83	13·26	13·42	12·95
10·0	13·78	15·51	15·56	14·99					12·90	13·31	13·42	12·95
15·0	13·94	15·66	15·51	14·88					12·90	13·16	13·42	12·90
20·0	13·99	15·56	15·45	14·93					12·90	13·16	13·42	12·90
25·0	14·20	15·56	15·51	14·99					12·90	13·16	13·42	12·90
30·0	14·57	15·56	15·56	14·88	13·16	11·85	11·95	12·78	12·90	13·26	13·42	12·90
35·0	14·93	15·61	15·51	14·67					12·90	13·31	13·42	12·90
40·0	14·99	15·56	15·51	14·47					12·95	13·36	13·47	12·95
45·0	15·04	15·56	15·51	14·40					12·95	13·36	13·42	12·95
50·0	15·14	15·61	15·45	14·20					13·05	13·36	13·36	12·95
55·0	15·14	15·61	15·45	14·09					13·10	13·42	13·36	12·95

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	5·290	5·600	5·640	5·500	5·390	5·550	5·325	5·300	5·200	5·200	5·490	5·730
7·0	5·340	5·590	5·590	5·500					5·210	5·200	5·480	5·700
12·0	5·390	5·600	5·600	5·700					5·220	5·200	5·490	5·700
17·0	5·470	5·600	5·600	5·740					5·240	5·230	5·500	5·740
22·0	5·490	5·500	5·580	5·680					5·200	5·230	5·500	5·800
27·0	5·570	5·560	5·610	5·600					5·200	5·260	5·510	5·820
32·0	5·600	5·600	5·650	5·550	5·610	5·500	5·350	5·220	5·190	5·300	5·520	5·860
37·0	5·600	5·600	5·680	5·490					5·170	5·320	5·600	5·890
42·0	5·630	5·590	5·620	5·470					5·200	5·400	5·610	5·920
47·0	5·640	5·580	5·610	5·390					5·190	5·420	5·640	5·870
52·0	5·600	6·590	5·580	5·300					5·200	5·440	5·690	5·850
57·0	5·600	5·610	5·570	5·280					5·200	5·410	5·710	5·890
Therm.	74°0	75°8	76°4	78°1	79°9	81°2	82°4	82°6	82°2	82°0	81°9	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°44'04	1°43'84	1°43'77	1°43'86	1°43'24	1°43'13	1°42'97	1°42'82	1°43'18	1°42'98	1°43'01	1°42'58
8·0	1·43·56	1·43·77	1·43·77	1·44·15					1·43·18	1·43·01	1·42·92	1·42·58
13·0	1·44·08	1·43·91	1·43·77	1·44·16					1·43·18	1·43·01	1·43·06	1·42·73
18·0	1·43·89	1·44·05	1·43·77	1·44·02					1·43·18	1·43·05	1·43·06	1·42·73
23·0	1·43·56	1·43·80	1·43·77	1·44·09					1·43·32	1·43·03	1·43·00	1·42·81
28·0	1·43·60	1·43·70	1·43·77	1·44·09					1·43·35	1·43·18	1·43·03	1·42·84
33·0	1·43·38	1·43·77	1·43·47	1·43·84	1·42·52	1·42·93	1·42·86	1·43·01	1·43·31	1·42·98	1·43·06	1·42·81
38·0	1·43·51	1·43·77	1·43·49	1·43·82					1·43·20	1·42·98	1·42·93	1·42·81
43·0	1·43·79	1·43·84	1·43·43	1·43·72					1·43·23	1·42·98	1·42·86	1·42·84
48·0	1·43·72	1·44·04	1·43·43	1·43·72					1·43·09	1·42·87	1·42·96	1·42·98
53·0	1·43·72	1·43·77	1·43·43	1·43·78					1·43·09	1·42·87	1·42·72	1·42·98
58·0	1·43·85	1·43·77	1·43·43	1·43·55					1·42·98	1·43·01	1·42·58	1·42·98

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14′557	15′074	16′102	15′897	15′280	14′762.	14′454	13′700	13′974	14′592	14′609	14′249	14′042
5·0	14·592	15·450	16·034	15·862	15·280					14·592	14·660	14·454	14·111
10·0	14·592	15·142	16·034	15·382	15·280					14·592	14·592	14·386	14·111
15·0	14·523	15·314	16·206	15·314	15·280					14·592	14·711	14·317	14·111
20·0	14·626	15·623	16·240	15·553	15·280					14·936	14·607	14·249	14·111
25·0	14·420	15·623	16·240	15·623	15·230					14·660	14·660	14·317	14·042
30·0	14·420	15·691	16·172	15·623	15·038	14·762	13·906	13·425	14·249	14·660	14·592	14·317	13·974
35·0	14·936	15·657	16·034	15·623	14·936					14·660	14·523	14·249	14·008
40·0	14·523	15·725	15·966	15·623	14·901					14·626	14·562	14·249	13·974
45·0	14·762	15·897	15·966	15·623	14·936					14·660	14·454	14·249	14·042
50·0	14·901	16·034	15·725	15·623	14·936					14·626	14·454	14·249	14·111
55·0	15·074	16·102	15·623	15·280	14·936					14·660	14·317	14·042	14·111

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·630	17·855	18·225	18·300	18·460	18·500	18·250	17·930	17·570	17·325	17·265	17·150	17·200
7·0	17·675	17·970	18·200	19·350	18·455					17·330	17·280	17·170	17·190
12·0	17·730	17·970	18·240	18·400	18·455					17·330	17·250	17·170	17·195
17·0	17·795	18·075	18·250	18·400	18·460					17·350	17·250	17·170	17·190
22·0	17·795	18·040	18·260	18·420	18·500					17·385	17·280	17·170	17·180
27·0	17·800	18·085	18·250	18·425	18·510					17·310	17·190	17·160	17·190
32·0	17·850	18·130	18·235	18·450	18·500	18·440	18·150	17·795	17·410	17·305	17·180	17·180	17·200
37·0	17·830	18·135	18·250	18·400	18·500					17·290		17·180	17·200
42·0	17·800	18·220	18·230	19·370	18·500					17·290	17·150	17·190	17·220
47·0	17·940	18·225	18·250	18·400	18·500					17·280	17·150	17·200	17·220
52·0	17·845	18·225	18·250	18·400	18·500					17·250	17·150	17·200	17·235
57·0	17·920	18·230	18·300	18·445	18·500					17·250	17·150	17·200	17·230
Therm.	78°9	78°3	79°9	81°8	83°0	84°0	84°8	85°2	85°5	86°1	86°0	85°0	84°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	6·33·60	6·35·30	6·34·20	5·39·20	4·45·25					4·44·60	4·41·45	5·00·90	5·06·70
8·0	6·33·60	6·35·30	6·28·60	5·28·60	4·45·25					4·45·75	4·41·45	5·00·90	5·06·70
13·0	6·33·60	6·35·30	6·23·60	5·19·50	4·36·60					4·45·80	4·49·50	5·00·90	5·06·70
18·0	6·28·50	6·35·30	6·22·30	5·19·50	4·36·60					4·44·30	5·00·30	5·00·90	5·06·70
23·0	6·28·50	6·35·30	6·22·30	5·19·50	4·36·60					4·45·15	5·04·25	5·00·90	5·06·70
28·0	6·12·00	6·39·20	6·17·00	5·19·50	4·36·60	4·26·90	4·06·40	4,14·25	4·44·85	4·45·15	5·01·45	5·00·90	5·14·00
33·0	6·12·00	6·39·20	6·17·00	5·19·50	4·36·60					4·45·15	4·08·15	5·00·90	5·16·10
38·0	6·12·00	6·39·20	6·10·00	5·19·50	4·36·60					4·45·15	4·48·00	5·00·90	5·16·10
43·0	6·16·60	6·39·20	6·04·65	5·14·15	4·36·60					4·45·15	4·45·90	5·00·90	5·16·10
48·0	6·20·70	6·39·20	5·48·25	5·14·15	4·36·60					4·45·15	4·49·10	5·07·70	5·16·10
53·0	6·27·30	6·39·20	5·48·25	5·01·65	4·36·60					4·45·15	4·49·10	5·06·70	5·23·10
58·0	6·27·30	6·34·20	5·39·20	4·45·25	4·36·60	4·16.00	4·06·40	4·34·80	5·08·75	4·41·45	5·00·90	5·06·70	5·23·10
Therm.	82°0	80°2	80°3	81°0	82°0	82°8	83°5	84°2	84°6	85°2	85°7	85°5	85°0

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14′47	15′30	15′04	14′57	14′09	13′94	13′26	13′68	13′99	14′47	13′94	13′47
5·0	14·47	15·40	15.04	14·62					14·09	14·25	13·94	13·42
10·0	14.52	15·40	14·99	14·62					14·20	14·20	13·94	13·42
15·0	14·57	15·40	14·99	14·47					14·25	14·20	13·88	13·42
20·0	14·73	15·45	14·93	14·47					14·25	14·20	13·88	13·42
25·0	14·93	15·51	14·88	14·47					14·35	14·09	13·88	13·42
30·0	14·99	15·51	14·73	14·40	14·47	13.24	13·10	13·94	14.20	13·99	13·88	13·36
35·0	14·99	15·45	14·78	14·40					14·35	13·99	13·88	13·42
40·0	15·09	15·35	14·73	14·40					14·35	13·94	13·83	13·42
45·0	15.19	15·30	14·62	14·25					14·35	13·94	13·78	13·42
50·0	15·30	15·09	14·57	14·14					14·35	13·94	13·62	13·47
55·0	15·30	15·04	14·52	14·14					14·40	13·94	13·57	13·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	5.300	5·690	5·800	5·790	5·500	5·300	5·120	5·030	4·900	5·000	5·000	5.100
7·0	5.310	5·700	5·790	5·770					4·980	5·050	5·000	5.100
12·0	5·370	5·700	5·870	5·730					4·990	5·000	5·000	5·090
17·0	5·390	5·710	5·920	5·670					5·000	5·020	5·020	5·100
22·0	5·450	5·740	5·890	5·600					5·040	5·000	5.000	5·090
27·0	5.500	5·690	5·880	5·590					5·000	5·000	5·000	5·120
32·0	5·570	5·670	5·820	5·470	5·460	5·260	5·120	4·900	5·060	5·000	5·000	5·140
37·0	5·600	5·640	5·850	5·360					5·020	4·980	5·000	5·140
42·0	5·620	5·700	5·790	5·320					5·000	4·980	5·040	5·150
47·0	5·620	5·710	5.740	5·290					5·060	5·000	5·030	5·170
52·0	5.680	5·790	5·700	5·380					5·000	5.000	5·090	5·170
57·0	5·690	5·800	5·790	5·440					5·000	5·060	5.100	5.200
Therm.	74°2	76°0	77°8	78°2	80°2	82°0	82°6	82°8	82°6	82°4	82°0	81°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3.0	1°43′97	1°44′57	1°44′22	1°44′18	1°44′67	1°44′50	1°43′89	1°43′73	1°44′21	1°43′94	1°43′44	1°43′66
8·0	1·44·35	1·44·50	1·44·33	1·44·18					1·44·21	1·43·70	1·43·64	1·43·73
13·0	1·44·04	1·44·35	1·43·85	1·44·18					1·44·21	1·43·63	1·43·58	1·43·73
18·0	1·44·21	1·44·52	1·43·78	1·44·32					1·44·06	1·43·75	1·43·51	1·43·87
23·0	1·44·39	1·44·56	1·44·16	1·44·61					1·44·27	1·43·65	1·43·44	1·43·87
28·0	1·44·23	1·44·56	1·44·23	1·44·61					1·43·85	1·43·70	1·43·79	1·43·80
33·0	1·44·30	1·44·49	1·44·23	1·44·79	1·44·59	1·43·96	1·43.76	1·44·01	1·43·85	1·43·63	1·43·79	1·43·73
38·0	1·44·13	1·44·35	1·44·23	1·44·70					1·43·85	1·43·56	1·43·72	1·43·77
43·0	1·44·20	1·44·29	1·44·23	1·44·95					1·43·82	1·43·60	1·43·27	1·43·73
48·0	1·44·37	1·44·29	1·44·38	1·44·99					1·43·56	1·43·49	1·43·87	1·43·80
53·0	1·44·50	1·44·05	1·44·38	1·44·85					1·43·53	1·43·49	1·43·87	1·43·87
58·0	1·44·57	1·43·94	1·44·04	1·44·85					1·43·56	1·43·36	1·43·66	1·43·87

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′906	14′179	15′074	15′280	14′986	14′832	12′703	12′015	12′015	13′425	15′004	14′728	13′700
5·0	13·906	14·249	15·004	15·280	14·867					13·630	15·142	14·626	13·700
10·0	13·700	14·351	15·074	15·348	14·660					13·562	15·211	14·454	13·700
15·0	13·871	14·283	15·074	15·553	14·660					13·562	15·211	14·317	13·837
20·0	14·076	14·317	15·348	15·623	14·592					13·837	15·211	14·249	13·906
25·0	13·906	14·386	15·314	15·623	14·592					13·906	15·108	14·249	13·906
30·0	13·906	14·420	15·280	15·382	14·592	13·664	12·188	11·981	12·601	13·906	15·108	14·213	14·008
35·0	13·768	14·626	15·211	15·280	14·592					14·230	15·176	14·179	14·145
40·0	13·768	14·798	15·038	15·280	14·592					14·523	15·176	14·111	14·249
45·0	13·906	14·592	15·314	15·280	14·592					14·660	15·176	13·974	14·213
50·0	13·906	14·867	15·280	15·004	14·592					14·798	14·936	13·837	14·249
55·0	14·042	14·849	15·280	14·936	14·936					14·317	14·936	13·700	14·386

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·480	18·515	18·900	19·200	19·150	18·800	18·210	18·000	17·605	17·265	17·200	17·270	17·420
7·0	18·555	18·565	18·920	19·250	19·190					17·250	17·200	17·290	17·490
12·0	18·530	18·625	18·935	19·200	19·200					17·240	17·150	17·305	17·470
17·0	18·565	18·675	18·950	19·200	19·200					17·240	17·135	17·340	17·485
22·0	18·465	18·700	18·995	19·150	19·150					17·260	17·100	17·350	17·445
27·0	18·460	18·840	19·020	19·100	19·140					17·300	17·085	17·360	17·400
32·0	18·475	18·835	19·070	19·050	19·185	18·600	18·100	17·610	17·490	17·372	17·075	17·400	17·350
37·0	18·495	18·875	19·100	19·100	19·150					17·380	17·080	17·400	17·360
42·0	18·450	18·905	19·125	19·130	19·150					17·365	17·060	17·410	17·355
47·0	18·475	18·855	19·040	19·200	19·150					17·340	17·110	17·380	17·360
52·0	18·485	18·860	19·172	19·150	19·050					17·270	17·150	17·350	17·380
57·0	18·520	18·920	19·250	19·150	18·900					17·200	17·180	17·400	17·390
Therm.	78°0	78°0	79°0	80°8	82°0	83°0	83°5	84°0	83°8	84°0	84°0	83°0	82°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·08·50	5·11·20	4·49·60	4·17·50	3·30·75					5·15·30	5·20·70	4·41·20	4·46·20
8·0	5·08·50	5·11·20	4·42·70	4·17·50	3·30·75					5·09·05	5·20·70	4·41·20	5·02·90
13·0	5·08·50	5·04·40	4·42·70	4·17·50	3·30·75					5·09·05	5·17·40	4·41·20	5·11·60
18·0	5·08·50	5·04·40	4·42·70	4·17·50	3·30·75					5·09·05	5·17·40	4·41·20	5·11·60
23·0	5·08·50	5·04·40	4·42·70	4·17·50	3·30·75					5·12·95	5·15·00	4·41·20	5·11·60
28·0	5·01·70	5·04·40	4·34·20	4·17·50	3·30·75	2·38·50		3·38·80	5·03·00	5·12·95	5·15·00	4·41·20	5·23·10
33·0	5·01·70	4·49·60	4·27·30	4·08·30	3·24·30					5·12·95	5·15·00	4·41·20	5·23·10
38·0	5·01·70	4·49·60	4·20·70	4·00·30	3·24·30					5·20·80	5·15·00	4·41·20	5·30·00
43·0	5·01·70	4·49·60	4·20·70	3·42·35	3·24·30					5·20·80	5·15·00	4·41·20	5·30·00
48·0	5·01·70	4·49·60	4·20·70	3·42·35	3·24·30					5·24·05	5·06·80	4·41·20	5·30·00
53·0	5·01·70	4·49·60	4·17·50	3·42·35	3·24·30					5·24·05	5·01·00	4·46·20	5·30·00
58·0	5·11·20	4·49·60	4·17·50	3·42·30	3·35·00	2·08·90	3·12·50	4·08·90	5·06·60	5·20·70	4·45·60	4·46·20	5·30·00
Therm.	80°9	79°5	79°5	80°0	81°0	82°0	82°3	82°6	83°0	83°7	84°2	83°9	83°4

TERM HOUR OBSERVATIONS ON THE 7HT AND 8TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13·94	14·47	14·99	14·47	14·47	12·37	11·90	12·01	12·90	14·52	14·35	13·21
5·0	13·94	14·47	14·99	14·40					12·95	14·57	13·99	13·31
10·0	13·94	14·52	14·99	14·40					13·00	14·73	13·94	13·31
15·0	13·94	14·52	14·99	14·47					13·10	14·73	13·38	13·36
20·0	13·94	14·73	14·99	14·47					13·26	14·52	13·62	13·36
25·0	13·99	14·88	14·99	14·47					13·42	14·47	13·47	13·36
30·0	13·99	14·88	14·99	14·40	13·18	11·85	11·43	12·37	13·42	14·47	13·47	13·42
35·0	14·09	14·83	14·99	14·40					13·78	14·62	13·42	13·42
40·0	14·35	14·93	14·93	14·35					13·99	14·57	13·42	13·47
45·0	14·40	14·93	14·73	14·35					14·20	14·47	13·42	13·47
50·0	14·40	14·93	14·73	14·40					14·40	14·47	13·42	13·68
55·0	14·47	14·93	14·57	14·47					14·47	14·40	13·31	13·88

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	5·790	5·800	5·900	6·000	5·800	5·350	5·200	4·710	4·390	4·400	4·510	4·800
7·0	5·750	5·800	5·890	6·020					4·400	4·420	4·600	4·890
12·0	5·800	5·800	5·900	6·050					4·390	4·430	4·610	4·870
17·0	5·800	5·800	5·860	6·050					4·400	4·400	4·650	4·800
22·0	5·820	5·800	5·800	6·060					4·400	4·390	4·600	4·890
27·0	5·800	5·870	5·790	6·040					4·500	4·350	4·690	4·900
32·0	5·820	5·890	5·800	6·070	5·600	5·250	4·820	4·590	4·560	4·320	4·700	4·800
37·0	5·840	5·890	5·800	6·090					4·600	4·350	4·690	4·740
42·0	5·850	5·890	5·850	6·020					4·550	4·320	4·750	4·710
47·0	5·850	5·900	5·890	6·080					4·520	4·310	4·700	4·790
52·0	5·800	5·900	5·800	5·990					4·500	4·300	4·690	4·860
57·0	5·800	5·950	5·950	5·900					4·490	4·390	4·720	4·820
Therm.	74°2	75°8	76°4	79°3	80°0	80°8	81°6	81°6	81°8	81°8	80°2	79°9

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°43·80	1°44·83	1°44·61	1°44·70	1°44·59	1°43·46	1°43·20	1°43·50	1°43·76	1°44·04	1°44·06	1°43·89
8·0	1·43·87	1·44·76	1·44·61	1·44·63					1·43·96	1·44·04	1·44·10	1·43·89
13·0	1·43·97	1·44·83	1·44·68	1·44·42					1·43·89	1·44·11	1·43·92	1·43·89
18·0	1·44·04	1·44·83	1·44·88	1·44·42					1·43·89	1·44·11	1·44·08	1·44·60
23·0	1·44·08	1·44·97	1·44·81	1·44·35					1·44·17	1·44·25	1·44·16	1·44·67
28·0	1·44·15	1·44·64	1·44·81	1·44·35					1·44·09	1·44·01	1·44·16	1·45·09
33·0	1·44·18	1·44·61	1·44·42	1·44·35	1·43·71	1·43·67	1·43·46	1·43·50	1·43·95	1·44·15	1·44·12	1·45·20
38·0	1·44·39	1·44·54	1·44·32	1·44·35					1·44·28	1·44·22	1·44·09	1·45·34
43·0	1·44·56	1·44·23	1·44·61	1·44·35					1·44·57	1·44·22	1·44·16	1·45·01
48·0	1·44·35	1·44·50	1·44·61	1·44·35					1·44·57	1·44·22	1·44·02	1·44·97
53·0	1·44·63	1·44·75	1·44·33	1·44·35					1·44·71	1·43·84	1·43·89	1·44·87
58·0	1·44·61	1·44·75	1·44·70	1·44·70					1·44·65	1·43·84	1·43·75	1·45·01

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH MARCH, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′940	14′592	15′280	15′623	15′280	14′592	13′527	12′256	13′081	13′837	14′334	14′454	13′768
5·0	14·042	14·592	15·331	15·623	15·280					13·940	14·334	14·317	13·768
10·0	13·837	14·523	15·623	15·897	15·280					14·025	14·368	14·317	13·700
15·0	13·940	14·728	15·553	15·725	15·280					14·042	14·317	14·317	13·802
20·0	13·802	14·936	15·519	15·691	15·245					14·111	14·317	14·179	13·906
25·0	14·042	14·936	15·553	15·691	14·970					14·179	14·317	14·076	13·837
30·0	13·974	14·867	15·485	15·623	15·108	13·906	12·876	12·618	13·562	14·179	14·386	14·042	13·871
35·0	13·871	14·798	15·553	15·623	15·004					14·179	14·454	14·008	13·768
40·0	14·076	15·142	15·623	15·623	14·936					14·249	14·523	13·974	13·974
45·0	14·076	15·211	15·623	15·623	14·936					14·249	14·523	13·906	13·906
50·0	14·249	15·280	15·623	15·623	14·867					14·317	14·523	13·837	13·940
55·0	14·386	15·176	15·623	15·382	14·660					14·317	14·523	13·768	13·940

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·190	18·315	18·550	18·800	19·140	19·250	19·105	18·850	18·520	18·305	17·862	17·790	17·710
7·0	18·410	18·425	18·600	18·800	19·200					18·265	17·950	17·800	17·710
12·0	18·450	18·395	18·630	18·850	19·200					18·215	17·850	17·840	17·710
17·0	19·455	18·425	18·645	18·900	19·200					18·195	17·820	17·850	17·665
22·0	18·530	18·490	18·635	18·950	19·160					18·152	17·820	17·850	17·665
27·0	18·460	18·590	18·650	19·000	19·175					18·095	17·820	17·860	17·700
32·0	18·380	18·515	18·690	19·050	19·200	19·200	19·050	18·670	18·410	18·085	17·800	17·860	17·745
37·0	18·390	18·475	18·700	19·000	19·210					18·030	17·795	17·835	17·750
42·0	18·390	18·420	18·715	19·050	19·200					18·000	17·770	17·810	17·702
47·0	18·320	18·400	18·750	19·050	19·200					17·950	17·780	17·835	17·770
52·0	18·405	18·435	18·760	19·060	19·250					17·875	17·770	17·805	17·750
57·0	18·300	18·440	18·800	19·050	19·250					17·867	17·770	17·755	17·870
Therm.	78°0	78°0	78°4	80°0	80°9	81°8	82°0	82°6	82°8	82°8	82°1	81°0	80°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	5·18·30	5·29·10	5·32·50	5·13·80	4·40·20					4·31·90	4·34·70	4·32·30	4·12·00
8·0	5·21·80	5·29·10	5·32·50	5·13·80	4·32·55					4·31·90	4·31·70	4·32·30	4·12·00
13·0	5·15·00	5·29·10	5·32·50	5·13·80	4·32·55					4·31·90	4·34·70	4·27·10	4·12·00
18·0	5·05·20	5·26·30	5·32·50	5·13·80	4·32·55					4·31·90	4·24·30	4·27·10	4·39·10
23·0	5·11·70	5·26·30	5·32·50	5·07·60	4·32·55					4·37·30	4·29·80	4·20·50	4·35·60
28·0	5·11·70	5·26·30	5·27·40	5·07·60	4·32·55	4·08·00	3·45·00	4·07·65	4·24·80	4·37·30	4·32·30	4·20·50	4·39·00
33·0	5·11·70	5·26·30	5·27·40	5·07·60	4·32·55					4·37·30	4·32·30	4·26·20	4·32·50
38·0	5·17·40	5·35·40	5·27·40	4·48·60	4·32·55					4·37·30	4·32·30	4·26·20	4·32·50
43·0	5·21·90	5·35·40	5·23·50	4·48·60	4·32·55					4·37·30	4·32·30	4·19·10	4·32·50
48·0	5·21·90	5·39·00	5·23·50	4·48·60	4·32·55					4·40·30	4·32·30	4·16·30	4·32·50
53·0	5·29·10	5·39·00	5·28·50	4·48·60	4·21·10					4·40·30	4·32·30	4·16·30	4·32·50
58·0	5·29·10	5·39·00	5·13·80	4·40·20	4·21·10	4·01·45	4·01·05	4·15·45	4·31·90	4·40·30	4·32·30	4·16·30	4·32·50
Therm.	81°2	79°5	79°1	79°5	80°0	80°5	80°8	81°4	81°7	81°8	82°3	81°5	81°0

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13′94	14′88	15′09	14′99	13′94	12′90	11′85	12′47	13′42	13′94	13′88	12′95
5·0	13·99	14·98	15·35	14·93					13·42	13·94	13·73	12·90
10·0	13·99	14·99	15·30	14·88					13·42	13·88	13·62	12·90
15·0	14·09	14·99	15·30	14·67					13·42	13·88	13·47	12·90
20·0	14·20	14·99	15·30	14·73					13·52	13·88	13·42	12·90
25·0	14·47	15·40	15·35	14·52					13·57	13·88	13·42	12·90
30·0	14·47	15·40	15·40	14·47		12·37	12·11	13·00	13·47	13·94	13·42	12·90
35·0	14·47	15·09	15·40	14·40					13·47	13·94	13·42	12·90
40·0	14·47	15·25	15·35	14·35					13·68	13·94	13·36	12·95
45·0	14·52	15·30	15·19	14·20					13·83	13·94	13·36	12·95
50·0	14·78	15·30	14·99	13·99					13·88	13·94	13·10	13·16
55·0	14·78	15·30	14·99	13·99					13·88	13·94	12·95	13·36

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	5·590	5·710	5·880	6·150	6·460	6·460	6·200	5·880	5·600	5·200	5·180	5·200
7·0	5·630	5·780	5·890	6·210					5·560	5·230	5·190	5·190
12·0	5·690	5·790	5·930	6·240					5·500	5·250	5·140	5·200
17·0	5·720	5·800	5·980	6·290					5·500	5·250	5·170	5·200
22·0	5·750	5·800	6·000	6·350					5·460	5·200	5·200	5·210
27·0	5·790	5·820	6·040	6·320					5·420	5·150	5·210	5·240
32·0	5·800	5·830	6·060	6·350	6·450	6·350	5·940	5·720	5·390	5·100	5·200	5·250
37·0	5·780	5·790	6·100	6·350					5·360	5·120	5·240	5·270
42·0	5·740	5·820	6·120	6·320					5·300	5·140	5·190	5·300
47·0	5·700	5·800	6·120	6·340					5·300	5·170	5·200	5·290
52·0	5·690	5·800	6·110	6·390					5·230	5·120	5·200	5·300
57·0	5·700	5·850	6·120	6·420					5·200	5·120	5·200	5·360
Therm.	74°2	74°3	76°1	77°8	78°0	79°2	79°6	79°6	79°0	78°3	78°0	76°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°44′64	1°45′04	1°45′38	1°44′61	1°44′54	1°44′21	1°43′74	1°43′98	1°44′17	1°44′38	1°44′50	1°44′10
8·0	1·44·64	1·45·09	1·45·09	1·44·61					1·44·27	1·44·38	1·44·37	1·44·10
13·0	1·44·57	1·45·38	1·45·37	1·44·90					1·44·35	1·44·40	1·44·37	1·44·03
18·0	1·44·78	1·45·31	1·45·20	1·45·04					1·44·37	1·44·37	1·44·23	1·44·13
23·0	1·44·85	1·45·28	1·44·88	1·45·01					1·44·44	1·44·37	1·44·12	1·44·23
28·0	1·44·85	1·45·31	1·44·88	1·44·78					1·44·51	1·44·37	1·44·09	1·44·83
33·0	1·44·78	1·45·24	1·44·81	1·44·87	1·43·96	1·44·13	1·44·09	1·44·18	1·44·51	1·44·44	1·44·19	1·44·20
38·0	1·44·71	1·45·31	1·44·81	1·44·76					1·44·37	1·44·50	1·44·16	1·44·10
43·0	1·45·05	1·45·38	1·44·81	1·44·70					1·44·44	1·44·57	1·44·10	1·44·30
48·0	1·44·97	1·45·24	1·44·81	1·44·85					1·44·44	1·44·57	1·44·03	1·44·24
53·0	1·45·04	1·45·24	1·44·95	1·44·78					1·44·51	1·44·57	1·44·02	1·44·27
58·0	1·44·94	1·45·24	1·44·71	1·44·57					1·44·37	1·44·57	1·44·10	1·44·27

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH MARCH, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14′145	14′918	15′823	16′274	16′653	15′794	13′906	12′703	12′876	13′854	13′906	13′630	13′596
5·0	14·317	15·211	15·897	16·309	16·653					13·906	13·906	13·630	13·596
10·0	14·454	15·211	15·966	16·274	16·653					13·906	13·906	13·630	13·596
15·0	14·420	15·314	16·000	16·412	16·653					13·906	13·906	13·664	13·562
20·0	14·488	15·348	16·000	16·584	16·653					13·906	13·871	13·768	13·596
25·0	14·557	15·399	15·966	16·618	16·584					13·906	13·819	13·768	13·596
30·0	14·592	15·348	15·966	16·653	16·309	15·004	13·219	12·669	13·219	13·837	13·768	13·768	13·630
35·0	14·557	15·519	15·966	16·653	16·309					13·837	13·768	13·768	13·630
40·0	14·798	15·628	15·966	16·653	16·309					13·974	13·734	13·837	13·630
45·0	14·901	15·760	15·966	16·653	16·309					13·974	13·734	13·802	13·630
50·0	14·867	15·760	16·136	16·6 3	15·966					13·906	13·562	13·768	13·562
55·0	14·970	15·828	16·309	16·653	15·794					13·906	13·562	13·630	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	18·700	18·775	18·860	19·005	19·400	19·455	19·150	18·865	18·590	18·290	18·070	18·135	18·125
7·0	18·820	18·695	18·890	19·150	19·375					18·302	18·055	18·145	18·110
12·0	18·835	18·660	18·915	19·105	19·365					18·270	18·070	18·135	18·125
17·0	18·840	18·670	18·950	19·150	19·350					18·250	18·070	18·130	18·125
22·0	18·860	18·705	18·960	19·140	19·400					18·250	18·112	18·100	18·133
27·0	18·825	18·750	18·990	19·160	19·400					18·200	18·150	18·100	18·160
32·0	18·800	18·805	19·000	19·100	19·450	19·300	19·090	18·710	18·380	18·180	18·122	18·095	18·160
37·0	18·805	18·765	19·050	19·210	19·450					18·170	18·115	18·100	18·150
42·0	18·785	18·780	19·050	19·300	19·460					18·145	18·100	18·095	18·080
47·0	18·800	18·835	19·100	19·310	19·455					18·120	18·090	18·100	18·055
52·0	18·800	18·835	19·100	19·350	19·500					18·100	18·080	18·105	18·080
57·0	18·735	18·840	19·150	19·355	19·500					18·100	18·100	18·100	18·150
Therm.	76°6	76°9	77°7	79°5	80°2	81°0	81°9	82°4	83°0	83°0	82°7	81°7	80°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	6·17·50	6·27·80	6·19·10	5·41·90	5·09·80					5·06·70	4·38·30	4·49·50	5·25·80
8·0	6·34·60	6·27·80	6·15·20	5·33·80	5·09·80					5·06·70	4·38·30	4·49·50	5·25·30
13·0	6·34·60	6·32·70	6·10·30	5·33·80	5·09·80					5·10·45	4·38·30	4·49·50	5·25·80
18·0	6·28·40	6·32·70	6·10·30	5·33·80	5·06·70					5·10·45	4·38·30	5·05·10	†
23·0	6·22·20	6·32·70	6·04·20	* 5·28.10	5·06·70					5·10·45	4·38·30	5·10·10	†
28·0	6·22·20	6·29·40	6·04·20	5·37·87	5·06·70	4·13·75	4·06·30	4·30·55	4·48·60	4·46·00	4·38·30	5·10·10	†
33·0	6·22·20	6·29·40	6·04·20	5·24·40	4·47·50					4·43·95	4·39·30	5·10·10	‡6·00·30
38·0	6·27·80	6·29·40	6·04·20	5·19.15	4·47·50					4·43·95	4·38·30	5·20·00	6·00·30
43·0	6·27·80	6·25·90	5·47·50	5·16·25	4·38·90					4·38·30	4·44·90	5·20·00	6·00·30
48·0	6·27·80	6·25·90	5·47·50	5·12·90	4·38·90					4·38·30	4·44·90	5·20·00	6·00·30
53·0	6·27·80	6·25·90	5·47·50	5·14.10	4·38·90					4·38·30	4·44·90	5·25·80	6·00·30
58·0	6·27·80	6·21·70	5·41·90	5·14.10	4·31·30	3·26·90	4·20·05	4·41·80	5·06·70	4·38·30	4·44·90	5·25·80	6·00·30
Therm.	79°2	78°0	77°9	78°5	79°5	79°8	80°5	81°2	81°7	82°4	83°2	82°4	81°9

* Vibrating. † Vibrating very much. ‡ Vibrations checked.

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14′35	15′04	15′51	15′92	14′99	-13′16	11′95	12′26	13′00	13′00	12′90	12′90
5·0	14·40	15·09	15·51	15·97					13·00	13·16	12·90	12·83
10·0	14·47	15·19	15·51	15·92					13·16	13·16	12·90	12·83
15·0	14·47	15·35	15·51	15·92					13·31	13·10	12·90	12·83
20·0	14·52	15·35	15·51	15·77					13·36	12·95	12·90	12·83
25·0	14·62	15·40	15·61	15·77					13·31	12·95	12·90	12·78
30·0	14·73	15·40	15·66	15·61	14·47	12·37	11·95	12·47	13·31	12·90	12·90	12·83
35·0	14·88	15·40	15·87	15·51					13·36	12·90	12·90	12·83
40·0	14·99	15·45	15·92	15·45					13·36	12·90	12·90	12·90
45·0	14·99	15·45	15·92	15·30					13·36	12·90	12·90	12·90
50·0	14·99	15·45	15·92	15·09					13·26	12·90	12·83	12·90
55·0	14·99	15·51	15·92	15·04					13·31	12·90	12·90	12·90

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	5·800	5·800	5·900	6·980	6·200	5·910	5·670	5·520	5·300	5·360	5·480	5·600
7·0	5·800	5·800	5·920	6·000					5·300	5·350	5·600	5·650
12·0	5·820	5·800	5·900	6·050					5·300	5·350	5·490	5·660
17·0	5·790	5·800	5·890	6·000					5·290	5·390	5·500	5·690
22·0	5·800	5·800	5·860	6·050					5·280	5·400	5·520	5·700
27·0	5·780	5·800	5·800	6·050					5·290	5·390	5·540	5·720
32·0	5·800	5·800	5·800	6·080	6·200	5·850	5·610	5·390	5·300	5·450	5·570	5·740
37·0	5·780	5·800	5·800	6·100					5·290	5·420	5·600	5·790
42·0	5·780	5·860	5·870	6·150					5·300	5·440	5·620	5·800
47·0	5·760	5·890	5·900	6·170					5·300	5·450	5·600	5·750
52·0	5·780	5·900	5·960	6·200					5·340	5·460	5·590	5·700
57·0	5·800	5·890	5·970	6·200					5·320	5·450	5·640	5·790
Therm.	72°4	74°0	75°8	76°3	78°0	79°6	80°1	80°5	80°0	80°0	79°8	78°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°44′67	1°44′86	1°45′17	1°45′26	1°44′83	1°44′09	1°44′33	1°44′21	1°44′18	1°44′09	1°43′82	1°43′92
8·0	1·44·97	1·44·93	1·45·20	1·45·26					1·44·23	1·44·09	1·43·82	1·43·92
13·0	1·44·97	1·45·00	1·45·08	1·45·26					1·44·23	1·44·09	1·43·82	1·43·92
18·0	1·45·07	1·45·04	1·45·17	1·45·26					1·44·23	1·44·09	1·43·99	1·43·89
23·0	1·45·10	1·45·04	1·45·19	1·45·26					1·44·23	1·44·06	1·44·09	1·43·92
28·0	1·45·15	1·44·76	1·45·22	1·45·19					1·44·23	1·44·00	1·44·09	1·43·92
33·0	1·45·10	1·44·96	1·45·22	1·44·91	1·45·05	1·44·55	1·44·14	1·44·26	1·44·02	1·43·95	1·44·09	1·43·96
38·0	1·44·98	1·44·86	1·45·26	1·45·91					1·44·02	1·43·95	1·44·09	1·43·96
43·0	1·44·95	1·44·86	1·45·26	1·44·91					1·44·16	1·43·92	1·44·16	1·43·96
48·0	1·45·09	1·44·86	1·45·26	1·45·06					1·44·16	1·43·92	1·44·13	1·43·82
53·0	1·45·09	1·[illegible]·63	1·44·26	1·44·72					1·44·09	1·43·75	1·44·09	1·43·75
58·0	1·45·01	1·45·06	1·45·26	1·44·69					1·44·09	1·43·75	1·43·96	1·43·75

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	13'184	13'871	15'416	16'653	16'772	15'691	13'906	14'111	14'590	14'798	15'004	14'454	13'493
5·0	13·253	14·042	15·519	16·653	16·481					14·798	15·074	14·454	13·493
10·0	13·219	13·906	15·485	16·653	16·653					14·798	15·142	14·386	13·562
15·0	13·253	13·974	15·519	16·653	16·996					14·798	15·211	14·249	13·630
20·0	13·219	14·076	15·553	16·653	16·653					14·798	15·074	14·111	13·596
25·0	13·115	14·249	15·623	16·653	16·687					14·798	15·142	14·111	13·700
30·0	13·184	14·523	15·623	16·771	16·486	14·694	13·664	14·249	14·523	14·867	14·867	13·974	13·768
35·0	13·258	14·626	15·966	16·653	16·309					15·074	14·728	13·906	13·768
40·0	13·527	14·798	15·034	16·687	16·343					15·741	14·728	13·837	13·700
45·0	13·493	14·867	15·966	16·755	16·343					15·074	14·660	13·768	13·837
50·0	13·596	14·936	16·240	16·858	15·966					14·867	14·592	13·630	13·837
55·0	13·802	15·211	16·378	16·687	15·966					14·798	14·592	13·630	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·910	18·180	18·550	18·900	19·150	19·300	19·350	18·950	18·540	18·350	18·050	17·960	17·700
7·0	17·950	18·190	18·610	18·950	19·200					18·330	18·030	17·705	17·670
12·0	17·937	18·270	18·600	19·000	19·215					18·310	17·970	17·680	17·660
17·0	17·950	18·365	18·715	19·025	19·250					18·260	17·890	17·725	17·680
22·0	17·950	18·442	18·360	19·025	19·250					18·250	17·840	17·730	17·640
27·0	18·020	18·510	18·930	19·140	19·300					18·270	17·750	17·660	17·620
32·0	18·075	18·505	18·950	19·030	19·285	19·500	19·200	18·660	18.400	18·240	17·750	17·660	17·580
37·0	18·090	18·535	18·950	19·150	19·325					18·120	17·740	17·650	17·615
42·0	18·070	18·610	18·960	19·200	19·340					18·080	17·710	17·650	17·552
47·0	18·140	18·580	18·925	19·175	19·350					18·050	17·700	17·650	17·552
52·0	18 100	18·540	18·895	19·125	19·350					18·120	17·690	17·650	17·570
57·0	18·150	18·520	18·850	19·200	19·350					18·080	17·710	17·620	17·540
Therm.	81°4	80°8	80°3	80°5	81°0	82°8	84°0	84°5	85°8	86°5	86°5	86°4	86°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	6·38·40	6·30·80	6·37·60	6·23·10	5·24·90					4·43·50	5·02·00	4·32·10	4·31·60
8·0	6·38·40	6·30·80	6·30·50	6·23·10	5·16·30					4·43·50	5·02·00	4·24·50	4·43·70
13·0	7·05·70	6·30·80	6·30·50	6·15·50	5·16·30					4·46·00	5·02·00	4·24·50	4·43·70
18·0	6·35·90	6·30·80	6·21·90	6·15·50	5·10·90					4·46·00	5·02·00	4·16·00	4·43·70
23·0	6·35·90	6·30·80	6·15·30	6·15·50	5·10·90					4·46·00	4·42·00	4·19·40	5·00·70
28·0	6·35·90	6·31·30	6·15·50	6·00·55	4·44·90	3·28·25		4·23·50	4·39·50	4·38·00	4·45·00	4·19·40	5·00·70
33·0	6·20·50	6·31·30	6·15·50	6·00·55	4·35·45					4·42·50	4·35·00	4·19·40	5·00·70
38·0	6·20·50	6·31·30	6·15·50	5·41·15	4·35·45					5·01·00	4·35·20	4·19·40	5·00·70
43·0	6·20·50	6·29·30	6·15·50	5·41·15	4·24·00					5·04·50	4·85·20	4·19·40	5·08·20
48·0	6·20·50	6·29·30	6·23·10	5·41·15	4·16·00					4·48·50	4·32·10	4·26·50	5·08·20
53·0	6·26·50	6·37·76	6·23·10	5·41·15	4·16·00					4·39·00	4·32·10	4·26·50	5·08·20
58·0	6·26·50	6·37·60	6·23·10	5·24·90	4·04·40	3·33·75	4·02·50	4·33·00	4·43·50	4·42·50	4·32·10	4·31·60	5·12·80
Therm.	83°5	82°0	81°5	81°0	80°8	82°0	83°0	84°5	85°6	86°0	86°6	86°9	87°0

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	13′42	14′99	16′04	16′56	15′51	13′68	13′52	13′94	14′40	14′52	13′99	13′36
5·0	13·47	14·99	16·04	16·50					14·40	14·73	13·99	13·26
10·0	13·47	15·04	16·09	16·30					14·40	14·73	13·94	13·26
15·0	13·62	15·04	16·14	16·24					14·47	14·78	13·94	13·31
20·0	13·88	15·04	16·40	16·14					14·47	14·78	13·88	13·36
25·0	13·99	15·19	16·50	16·14					14·47	14·67	13·73	13·36
30·0	14·40	15·30	16·50	16·14	14·47	13·42	13·88	14·04	14·47	14·52	13·57	13·42
35·0	14·47	15·66	16·50	16·04					14·52	14·47	13·52	13·42
40·0	14·47	15·66	16·50	16·04					14·62	14·47	13·47	13·42
45·0	14·62	15·61	16·56	15·97					14·62	14·40	13·47	13·42
50·0	14·73	15·61	16·56	15·97					14·47	14·35	13·42	13·42
55·0	14·73	15·97	16·56	15·71					14·47	14·25	13·36	13·42

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	5·090	5·000	5·650	5·900	5·580	5·505	5·400	5·000	4·300	4·000	3·500	3·870
7·0	5·080	5·050	5·660	5·800					4·290	3·980	3·490	3·930
12·0	5·100	5·120	5·730	5·850					4·300	3·900	3·500	3·940
17·0	5·130	5·190	5·780	5·760					4·270	3·800	3·540	4·000
22·0	5·190	5·280	5·750	5·700					4·250	3·760	3·590	4·080
27·0	5·140	5·370	5·820	5·700					4·280	3·630	3·540	4·090
32·0	5·110	5·460	5·840	5·700	5·850	5·750	5·100	4·440	4·300	3·560	3·490	4·050
37·0	5·130	5·540	5·890	5·690					4·220	3·500	3·530	4·100
42·0	5·200	5·630	5·920	5·620					4·120	3·500	3·590	4·190
47·0	5·190	5·700	5·920	5·540					4·050	3·470	3·630	4·180
52·0	5·120	5·760	5·900	5·520					4·080	3·500	3·690	4·200
57·0	5·080	5·680	5·900	5·590					4·000	3·500	3·780	4·240
Therm.	78°0	78°0	77°9	77°9	80°2	83°0	83°0		84°2	84°4	85°5	85°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°45′06	1°45′75	1°45′69	1°45′96	1°45′74	1°45′39	1°45′59	1°46′07	1°46′28	1·46·63	1°46′79	1°46′27
8·0	1·45·23	1·45·75	1·45·69	1·45·67					1·46·28	1·46·70	1·46·79	1·46·27
13·0	1·45·24	1·45·82	1·45·69	1·46·12					1·46·28	1·46·77	1·46·73	1·46·34
18·0	1·45·31	1·45·85	1·45·55	1·46·91					1·46·28	1·46·84	1·46·74	1·46·41
23·0	1·45·42	1·45·88	1·45·55	1·46·56					1·46·28	1·46·70	1·46·60	1·46·38
28·0	1·45·59	1·45·67	1·45·55	1·46·60					1·46·28	1·46·77	1·46·60	1·46·33
33·0	1·45·71	1·45·53	1·45·62	1·46·39	1·45·88	1·45·14	1·45·88	1·46·68	1·46·35	1·46·50	1·46·75	1·46·40
38·0	1·45·82	1·45·59	1·45·55	1·46·36					1·46·55	1·46·36	1·46·69	1·46·40
43·0	1·45·99	1·45·36	1·45·59	1·46·39					1·46·62	1·46·50	1·46·62	1·46·19
48·0	1·45·49	1·45·30	1·45·66	1·46·39					1·46·55	1·46·43	1·46·55	1·46·19
53·0	1·45·41	1·45·57	1·45·76	1·46·02					1·46·35	1·46·79	1·46·41	1·46·19
58·0	1·45·69	1·45·42	1·45·76	1·46·02					1·46·28	1·46·79	1·46·41	1·46·19

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·680	14·213	15·280	15·553	15·966	14·762	13·219	12·669	13·031	13·768	13·837	13·287	13·459
5·0	13·562	14·249	15·348	15·691	15·966					13·768	13·768	13·287	13·365
10·0	13·700	14·420	15·348	15·623	15·708					13·837	13·700	13·355	13·253
15·0	13·700	14·283	15·416	15·691	15·587					13·906	13·630	13·287	13·365
20·0	13·630	14·660	15·485	15·623	16·450					13·906	13·562	13·425	13·355
25·0	13·734	14·488	15·553	15·623	15·280					13·906	13·493	13·425	13·356
30·0	13·940	14·592	15·623	15·623	15·280	13·596	12·806	12·806	13·287	13·906	13·493	13·425	13·425
35·0	13·871	14·660	15·553	15·623	15·280					13·906	13·493	13·493	13·425
40·0	13·802	14·660	15·794	15·691	15·280					13·906	13·459	13·493	13·493
45·0	13·768	14·762	15·650	15·897	15·245					13·906	13·425	13·493	13·493
50·0	14·042	15·142	15·623	15·966	15·004					13·906	13·355	13·493	13·562
55·0	14·042	15·280	15·725	15·966	14·867					13·906	13·287	13·493	13·630

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·975	18·175	19·500	18·650	19·887	18·950	18·800	18·350	18·020	17·680	17·490	17·530	17·610
7·0	18·000	18·225	18·485	18·650	18·910					17·650	17·470	17·540	17·640
12·0	18·055	18·250	18·455	18·650	18·900					17·620	17·460	17·550	17·630
17·0	18·030	18·250	18·450	18·725	18·950					17·600	17·480	17·550	17·627
22·0	18·045	18·235	18·450	18·705	18·950					17·570	17·470	17·550	17·610
27·0	18·075	18·250	18·460	18·750	18·950					17·580	17·480	17·570	17·610
32·0	18·000	18·245	18·470	18·800	18·950	18·850	18·650	18·080	17·850	17·560	17·470	17·580	17·610
37·0	17·980	18·260	18·510	18·750	18·950					17·550	17·490	17·580	17·580
42·0	18·000	18·320	18·550	18·800	18·950					17·550	17·490	17·600	17·580
47·0	18·070	18·255	18·550	18·825	18·900					17·540	17·490	17·620	17·570
52·0	18·120	18·465	18·600	18·850	18·950					17·530	17·510	17·610	17·670
57·0	18·115	18·395	18·650	18·900	18·950					17·520	17·530	17·610	17·560
Therm.	81°0	80°8	81°9	83°0	84°0	85°2	86°0	86°5	87°0	87°0	86°7	85°6	85°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	h d	t d	t d
M. S.													
3·0	5·06·20	5·17·30	5·08·80	4·12·50	3·41·75					4·09·0	3·43·0	3·38·80	4·23·30
8·0	5·06·20	5·17·30	5·05·00	4·12·50	3·41·75					4·09·0	3·39·0	3·38·80	4·23·30
13·0	5·15·20	5·17·30	5·01·20	4·12·50	3·36·40					4·09·0	3·36·5	3·47·10	4·29·60
18·0	5·05·50	5·17·30	4·41·60	4·12·50	3·36·40					4·09·0	3·35·5	4·02·00	4·29·60
23·0	5·05·50	5·17·30	4·41·30	4·05·60	3·29·30					4·09·0	3·32·0	4·02·00	4·29·60
28·0	5·05·50	5·17·30	4·36·10	4·05·60	3·25·50	2·35·00		3·13·00	4·09·0	4·09·0	3·32·0	4·12·30	4·36·70
33·0	5·05·50	5·17·30	4·31·00	4·05·60	3·26·50					4·08·0	3·32·0	4·12·30	4·36·70
38·0	5·09·80	5·17·30	4·31·00	4·05·60	3·19·35					4·05·0	3·32·0	4·12·30	4·36·70
43·0	5·09·80	5·17·30	4·20·85	4·05·60	3·19·35					4·01·0	3·32·00	4·18·20	4·41·20
48·0	5·09·80	5·17·30	4·20·85	4·05·60	3·10·00					4·00·0	3·32·00	4·18·20	4·41·20
53·0	5·13·80	5·08·80	4·20·85	3·45·45	3·10·00					4·00·0	3·32·00	4·23·30	4·41·20
58·0	5·13·80	5·08·80	4·12·50	3·41·75	3·03·25	2·19·05	2·36·00	3·37·0	4·09·0	3·47·5	3·38·80	4·23·30	4·44·40
Therm.	84°4	82°4	82°5	83°0	83°5	84°2	85°2	86°7	86°0	86°3	85°9	85°1	85°0

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13'88	14'62	14'99	14'99	14'14	12'63	12'26	12'47	13'10	13'16	12'62	13'83
5·0	13·94	14·73	14·99	14·99					13·10	12·95	12·68	12·78
10·0	13·94	14·78	14·99	14·99					13·26	12·95	12·78	12·68
15·0	13·94	14·88	14·99	14·99					13·36	12·90	12·90	12·47
20·0	13·99	14·93	15·04	14·93					13·36	12·90	12·90	12·47
25·0	13·99	14·99	15·04	14·93					13·42	12·90	12·90	12·68
30·0	14·04	14·99	15·04	14·78	13·19	12·37	12·37	12·90	13·42	12·90	12·90	12·78
35·0	14·20	14·99	14·99	14·62					13·42	12·83	12·90	12·83
40·0	14·40	14·99	14·99	14·52					13·42	12·83	12·90	12·83
45·0	14·47	14·99	14·99	14·47					13·36	12·78	12·90	12·90
50·0	14·47	15·04	15·04	14·47					13·36	12·78	12·90	12·90
55·0	14·52	14·99	15·04	14·40					13·31	12·73	12·90	12·90

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	4·690	4·900	5·200	5·500	5·420	5·150	4·960	4·700	4·510	4·540	4·760	5·080
7·0	4·700	4·900	5·200	5·500					4·500	4·510	4·790	5·100
12·0	4·700	4·940	5·200	5·490					4·520	4·520	4·800	5·050
17·0	4·700	4·990	5·200	5·500					4·490	4·580	4·800	5·090
22·0	4·700	5·000	5·220	5·540					4·500	4·580	4·800	5·040
27·0	4·720	5·000	5·250	5·540					4·520	4·590	4·840	5·000
32·0	4·700	5·000	5·280	5·520	5·250	5·200	4·830	4·560	4·500	4·600	4·820	5·030
37·0	4·740	5·050	5·300	5·480					4·500	4·620	4·860	5·080
42·0	4·790	5·080	5·320	5·500					4·500	4·690	4·930	5·090
47·0	4·820	5·090	5·340	5·500					4·490	4·700	5·000	5·100
52·0	4·840	5·120	5·440	5·460					4·480	4·700	5·020	5·100
57·0	4·890	5·190	5·500	5·450					4·500	4·720	5·060	5·110
Therm.	77°8	78°1	79°7	80°2	81°7	82°4	83°3	84°1	84°2	84°0	83°6	82°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46'99	1°47'48	1°47'18	1°47'45	1°47'40	1°46'43	1°46'31	1°46'29	1°46'55	1°46'33	1°45'92	1°45'37
8·0	1·47·03	1·47·55	1·47·32	1·47·45					1·46·55	1·45·97	1·46·07	1·45·27
13·0	1·47·20	1·47·55	1·47·25	1·47·19					1·46·62	1·45·90	1·46·14	1·45·16
18·0	1·47·06	1·47·62	1·47·32	1·47·07					1·46·54	1·45·83	1·45·92	1·45·27
23·0	1·47·44	1·47·26	1·47·10	1·46·93					1·46·54	1·46·05	1·46·05	1·45·27
28·0	1·47·12	1·47·32	1·47·10	1·46·76					1·46·54	1·46·12	1·46·06	1·45·27
33·0	1·47·22	1·47·39	1·47·10	1·46·76	1·46·81	1·46·31	1·46·31	1·46·36	1·46·54	1·46·12	1·45·92	1·45·34
38·0	1·47·29	1·47·32	1·47·17	1·47·19					1·46·11	1·46·12	1·45·69	1·45·48
43·0	1·47·29	1·47·56	1·47·38	1·47·19					1·45·97	1·46·09	1·45·55	1·46·55
48·0	1·47·39	1·47·42	1·47·38	1·47·45					1·45·97	1·46·06	1·45·40	1·45·55
53·0	1·47·77	1·47·39	1·47·45	1·47·34					1·46·40	1·45·99	1·45·40	1·45·62
58·0	1·47·48	1·47·36	1·47·45	1·47·50					1·46·40	1·45·92	1·45·40	1·45·40

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′425	13′321	14′867	15′623	15′211	14′626	13′906	12′738	13′355	14′008	14′008	14′592	15′348
5·0	13·562	13·321	14·694	15·553	15·004					13·906	13·960	14·592	15·416
10·0	13·355	13·527	14·762	15·553	15·055					13·974	13·906	14·626	15·485
15·0	13·459	13·837	15·004	15·382	15·245					13·974	13·906	14·660	15·691
20·0	13·562	13·940	15·038	15·553	15·280					13·974	13·906	14·728	15·760
25·0	13·630	13·906	15·004	15·623	15·280					14·008	14·249	14·936	15·862
30·0	13·493	13·974	15·211	15·623	15·211	14·420	13·906	12·806	13·974	14·077	14·249	15·004	15·966
35·0	13·562	14·179	15·280	15·623	15·038					14·111	14·454	15·004	15·828
40·0	13·287	14·351	15·280	15·623	14·626					14·145	14·592	15·280	16·102
45·0	13·287	14·592	15·280	15·623	14·970					14·179	14·523	15·348	16·172
50·0	13·425	14·592	15·280	15·623	14·694					14·145	14·660	15·553	16·102
55·0	13·253	14·936	15·553	15·623	14·660					14·008	14·728	15·485	15·966

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·115	18·355	18·500	18·800	18·910	18·700	18·475	17·690	17·350	16·920	16·800	15·600	14·300
7·0	18·080	18·395	18·600	18·850	18·950					16·900	16·730	15·470	14·370
12·0	18·080	18·350	18·670	18·905	18·950					16·900	16·700	15·300	14·165
17·0	18·140	18·335	18·615	18·865	18·875					16·870	16·730	15·150	14·150
22·0	18·075	18·410	18·640	18·850	18·800					16·855	16·760	15·070	14·140
27·0	18·090	18·320	18·640	18·900	18·800					16·850	16·550	14·930	14·200
32·0	18·080	18·350	18·650	19·050	18·800	18·650	17·425	17·535	16·935	16·830	16·410	14·830	14·250
37·0	18·165	18·435	18·710	18·960	18·900					16·820	16·250	14·710	14·260
42·0	18·220	18·505	18·750	18·950	18·800					16·800	16·105	14·570	14·320
47·0	18·205	18·545	18·750	18·950	18·800					16·835	15·980	14·490	14·205
52·0	18·320	18·500	18·725	18·950	18·800					16·820	15·910	14·410	14·320
57·0	18·360	18·465	18·795	18·950	18·745					16·810	15·780	14·350	14·370
Therm.	80°7	80°1	80°8	82°8	83°0	84°0	84°5	84°2	85°0	85°0	84°8	84°0	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	6·22·90	6·28·90	6·33·40	5·44·05	5·17·10					6·26·85	6·13·95	6·30·40	6·33·70
8·0	6·28·00	6·35·60	6·19·30	5·44·05	5·17·10					6·26·85	6·11·15	6·30·40	6·24·00
13·0	6·33·00	6·36·30	6·19·30	5·36·90	5·17·10					6·26·85	6·07·65	6·35·60	6·35·50
18·0	6·22·30	6·46·30	6·19·30	5·36·90	5·17·10					6·11·40	6·07·65	6·35·60	6·35·50
23·0	6·22·30	6·41·70	6·19·30	5·37·60	5·21·25					6·13·30	6·14·90	6·38·90	6·35·50
28·0	6·18·40	6·38·70	6·19·30	5·31·00	5·21·25	5·07·50		6·21·35	7·01·25	6·13·90	6·24·70	6·43·60	6·35·50
33·0	6·18·40	6·38·70	6·12·10	5·31·00	5·21·25					6·10·30	6·25·30	6·38·30	6·21·20
38·0	6·14·70	6·31·90	6·12·10	5·24·10	5·35·40					6·12·00	6·30·40	6·35·50	6·21·20
43·0	6·22·40	6·31·90	6·12·10	5·24·10	5·44·30					6·18·70	6·30·40	6·49·30	6·21·20
48·0	6·28·90	6·28·30	6·04·20	5·24·10	5·44·30					6·18·70	6·30·40	6·49·30	6·21·10
53·0	6·28·90	6·33·40	6·04·20	5·24·10	5·44·30					6·13·95	6·30·40	6·41·80	6·13·00
58·0	6·28·90	6·33·40	6·04·20	5·24·10	5·44·30	5·15·50	5·43·60	6·40·50	6·31·85	6·13·95	6·30·40	6·33·70	6·13·00
Therm.	83°0	81°5	81°4	82°0	82°4	83°5	83°7	84°2	84°7	85°2	85°3	84°4	84°0

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	12'37	13'83	14'47	14'40	13'99	12'90	11'85	12'47	13'21	13'26	13'62	14'47
5·0	12·37	13·88	14·47	14·20					13·05	13·00	13·57	14·47
10·0	12·52	13·94	14·47	14·09					13·05	12·95	13·47	14·47
15·0	12·78	13·94	14·52	14·09					13·21	12·90	13·62	14·52
20·0	12·90	13·99	14·67	14·09					13·26	12·95	13·83	14·67
25·0	12·90	14·04	14·47	14·04					13·31	13·36	13·94	14·78
30·0	12·90	14·14	14·47	14·09	13·68	12·90	11·95	13·05	13·36	13·42	13·99	14·99
35·0	13·10	14·30	14·52	14·09					13·36	13·47	14·09	14·93
40·0	13·31	14·35	14·47	14·04					13·36	13·47	14·30	14·99
45·0	13·36	14·35	14·47	14·04					13·36	13·52	14·47	14·99
50·0	13·42	14·35	14·47	13·99					13·36	13·73	14·47	14·99
55·0	13·68	14·40	14·47	13·99					13·31	13·88	14·62	14·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	5.700	5.790	5·800	6·000	5·020	5·400	4·300	3·850	3·320	3·410	2·400	1·100
7·0	5·750	5·800	5·880	5·990					3·350	3·410	2·200	1·190
12·0	5·740	5·820	5·900	5·950					3·300	3·400	2·100	1·080
17·0	5·690	5·800	5·990	5·870					3·290	3·510	1·900	0·990
22·0	5·700	5·720	5·990	5·800					3·300	3·500	1·810	0·980
27·0	5·700	5·610	6·000	5·710					3·310	3·290	1·700	1·000
32·0	5·710	5·600	6·040	5·640	5·160	4·00	4·000	3·420	3·350	3·170	1·600	1·000
37·0	5·790	5·620	6·090	5·650					3·390	3·000	1·490	1·080
42·0	5·840	5·650	6·080	5·490					3·390	2·900	1·310	1·100
47·0	5·890	5·690	6·090	5·370					3·370	2·750	1·250	1·120
52·0	5·850	5·690	6·100	5·200					3·380	2·690	1·200	1·000
57·0	5·770	5·700	6·020	5·080					3·390	2·500	1·190	1·120
Therm.	77°7	78°0	78°4	79°8	80°0	82°0	82°5	83°2	83°1	82°3	82°0	80°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°44'51	1°44'92	1°45'38	1°44'97	1°44'96	1°44'96	1°43'07	1°44'84	1°45'34	1°44'34	1°44'64	1°44'39
8·0	1·44·51	1·44·74	1·45·31	1·44·76					1·45·25	1·44·27	1·44·64	1·44·46
13·0	1·44·71	1·44·62	1·45·31	1·44·81					1·45·31	1·44·24	1·44·68	1·44·39
18·0	1·44·03	1·44·91	1·45·00	1·45·15					1·44·73	1·44·24	1·44·57	1·44·59
23·0	1·44·70	1·44·91	1·45·17	1·45·19					1·44·44	1·44·24	1·44·64	1·44·56
28·0	1·44·67	1·45·10	1·44·95	1·45·19					1·44·34	1·44·44	1·44·70	1·44·76
33·0	1·44·59	1·45·19	1·44·95	1·45·26	1·44·47	1·45·39	1·44·71	1·45·02	1·44·41	1·44·44	1·44·76	1·44·77
38·0	1·44·80	1·45·19	1·44·66	1·45·09					1·44·30	1·44·50	1·44·33	1·44·73
43·0	1·44·92	1·45·19	1·44·81	1·44·68					1·44·33	1·44·64	1·44·32	1·44·86
48·0	1·44·78	1·45·19	1·45·09	1·45·02					1·44·37	1·44·57	1·44·25	1·44·93
53·0	1·44·78	1·45·04	1·45·24	1·44·88					1·44·48	1·44·71	1·44·45	1·44·86
58·0	1·44·99	1·45·31	1·45·24	1·44·99					1·44·34	1·44·64	1·44·39	1·44·72

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	16′102	16′447	16′309	15′553	15′592	13′287	12′391	12′876	14′249	14′523	14′317	13′906
5·0	15·038	16·034	16·447	16·102	15·485					14·249	14·592	14·317	13·906
10·0	15·280	16·240	16·378	16·034	15·348					14·249	14·523	14·317	13·837
15·0	15·348	16·240	16·447	15·966	15·211					14·363	14·454	14·317	13·768
20·0	15·553	16·274	16·447	15·897	15·211					14·523	14·317	14·317	13·700
25·0	15·553	16·309	16·447	15·897	15·280					14·592	14·283	14·317	13·700
30·0	15·623	16·378	16·378	15·828	15·211	14·179	12·806	12·326	13·527	14·592	14·386	14·249	13·700
35·0	15·623	16·412	16·378	15·691	15·004					14·592	14·266	14·179	13·700
40·0	15·828	16·412	16·378	15·691	14·936					14·592	14·317	14·179	13·974
45·0	15·828	16·447	16·378	15·623	14·936					14·660	14·317	14·179	13·906
50·0	16·102	16·447	16·309	15·553	14·728					14·660	14·386	14·179	13·768
55·0	16·192	16·447	16·309	15·623	14·660					14·523	14·317	14·042	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	16·900	16·900	17·135	17·630	18·175	18·300	18·180	17·860	17·817	17·715	17·475	17·590	17·600
7·0	16·825	16·925	17·170	17·650	18·240					17·750	17·475	17·530	17·500
12·0	16·835	16·920	17·295	17·680	18·333					17·760	17·470	17·520	17·500
17·0	16·865	16·955	17·290	17·760	18·400					17·667	17·490	17·510	17·480
22·0	17·000	16·990	17·345	17·800	18·400					17·590	17·560	17·510	17·480
27·0	16·875	17·000	17·225	17·830	18·350					17·680	17·600	17·500	17·460
32·0	16·905	17·030	17·200	17·860	18·390	18·240	18·020	17·850	17·790	17·710	17·540	17·500	17·440
37·0	16·915	17·120	17·300	17·920	18·475					17·675	17·535	17·500	17·380
42·0	16·920	17·160	17·400	17·980	18·460					17·600	17·580	17·500	17·240
47·0	16·990	17·250	17·480	18·080	18·410					17·660	17·580	17·500	17·290
52·0	16·920	17·235	17·550	18·125	18·430					17·645	17·570	17·500	17·290
57·0	16·930	17·185	17·600	18·170	18·400					17·575	17·600	17·500	17·300
Therm.	80°8	80°8	80°7	81°1	82°0	83°8	84°0	83°9	83°0	83°0	83°4	83°0	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·06·10	8·23·80	7·46·00	7·07·00	6·35·00					6·46·10	6·14·50	5·35·80	5·27·60
8·0	8·31·00	8·23·80	7·40·90	7·07·00	6·28·5					6·47·80	6·06·00	5·21·20	5·27·60
13·0	8·31·00	8·23·80	7·32·90	7·07·00	6·28·5					6·45·75	5·49·60	5·21·20	5·27·60
18·0	8·34·90	8·19·80	7·32·90	6·47·00	6·19·5					6·44·00	5·48·00	5·14·20	5·23·90
23·0	8·34·90	8·19·80	7·32·90	6·47·00	6·19·5					6·38·20	5·42·00	5·14·20	5·23·90
28·0	8·27·60	8·19·80	7·26·80	6·47·00	6·27·0	6·11·5	5·44·6		6·45·50	6·32·60	5·42·00	5·14·20	5·23·90
33·0	8·27·60	8·13·40	7·26·80	6·47·00	6·40·0					6·29·15	5·44·60	5·14·20	5·23·90
38·0	8·27·60	8·13·40	7·22·50	6·47·00	6·10·50					6·28·70	5·44·60	5·22·00	5·34·50
43·0	8·23·80	8·05·70	7·20·50	6·47·00	6·10·50					6·28·70	5·44·60	5·22·00	5·34·50
48·0	8·23·80	8·05·70	7·16·00	6·38·50	6·10·50					6·16·85	5·35·80	5·22;00	5·26·80
53·0	8·23·80	8·00·50	7·16·00	6·35·00	6·09·00					6·11·40	5·35·80	5·27·60	5·26·80
58·0	8·23·80	7·46·00	7·07·00	6·35·00	6·02·00	5·49·00	5·21·55	6·02·30	7·03·65	6·12·40	5·35·80	5·27·60	5·26·80
Therm.	83°4	82°1	81°5	81°6	82°0	83°0	83°7	83°5	82°8	82°7	83°2	83°4	83°6

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15′45	15′92	15′51	14′78	13′99	12′63	11′59	12′11	13′42	13′83	13′42	12′95
5·0	15·51	15·92	15·51	14·73					13·42	13·83	13·42	12·90
10·0	15·51	15·82	15·45	14·62					13·42	13·78	13·42	12·90
15·0	15·51	15·77	15·35	14·47					13·57	13·78	13·42	12·90
20·0	15·51	15·77	15·35	14·47					13·62	13·57	13·42	12·90
25·0	15·61	15·66	15·19	14·47					13·73	13·42	13·36	12·90
30·0	15·61	15·56	15·14	14·47		11·95	11.59	12·90	13·73	13·42	13·36	12·90
35·0	15·71	15·56	15·14	14·35					13·78	13·42	13·31	12·90
40·0	15·87	15·56	15·09	14·20					13·83	13·42	13·31	12·90
45·0	15·92	15·56	14·99	14·20					13·88	13·42	13·36	12·90
50·0	15·92	15·51	14·88	14·14					13·88	13·42	13·31	12·90
55·0	15·92	15·51	14·83	13·99					13·78	13·42	13·10	12·90

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	3·100	3·260	3·690	4·270	4·320	4·640	4·600	4·480	3·400	3·880	4·000	4·050
7·0	3·090	3·200	3·700	4·300					3·330	3·880	4·000	4·060
12·0	3·100	3·270	3·710	4·360					3·460	3·900	4·000	4·080
17·0	3·100	3·320	3·780	4·470					3·530	3·850	4·000	4·090
22·0	3·110	3·400	3·800	4·530					3·600	3·890	4·000	4·120
27·0	3·130	3·390	3·800	4·400					3·720	3·960	4·000	4·080
32·0	3·140	3·400	3·810	4·390	4·750	4·600	4·600	4·380	3·790	3·900	4·000	4·050
37·0	3·180	3·420	3·790	4·400					3·900	3·870	4·000	4·060
42·0	3·210	3·460	3·800	4·400					3·890	3·900	4·000	4·100
47·0	3·260	3·500	3·940	4·400					3·880	3·900	4·000	4·040
52·0	3·290	3·600	4·080	4·380					4·000	3·900	4·000	3·970
57·0	3·310	3·620	4·180	4·420					4·000	3·900	4·020	3·950
Therm.	78°0	78°0	78°1	79°5	80°1		81°4	80°6	80°4	81°6	81°7	80°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46′01	1°46′21	1°46′22	1°46′02	1°46′78	1°45′06	1°44′78	1°45′09	1°44′58	1°45′71	1°45′66	1°45′25
8·0	1·45·94	1·46·21	1·46·02	1·45·96					1·44·58	1·45·78	1·45·66	1·45·25
13·0	1·46·15	1·46·14	1·45·94	1·45·97					1·44·30	1·45·71	1·45·66	1·45·18
18·0	1·46·15	1·46·21	1·46·02	1·46·11					1·44·27	1·45·79	1·45·66	1·45·11
23·0	1·46·18	1·46·21	1·45·94	1·46·26					1·44·43	1·45·66	1·45·66	1·45·04
28·0	1·46·22	1·46·21	1·46·28	1·46·38					1·44·64	1·45·62	1·45·66	1·45·04
33·0	1·46·29	1·46·14	1·46·16	1·46·55	1·45·23	1·45·01	1·45·07	1·45·80	1·45·06	1·45·73	1·45·59	1·45·04
38·0	1·46·22	1·46·29	1·46·16	1·46·34					1·55·49	1·45·61	1·45·52	1·45·04
43·0	1·46·36	1·46·29	1·46·16	1·46·28					1·45·78	1·45·66	1·45·52	1·45·31
48·0	1·46·21	1·46·29	1·46·09	1·46·28					1·46·00	1·45·66	1·45·52	1·45·25
53·0	1·46·21	1·46·22	1·46·02	1·46·07					1·45·85	1·45·73	1·45·52	1·45·11
58·0	1·46·21	1·46·22	1·46·09	1·45·85					1·45·71	1·45·66	1·45·38	1·45·28

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH MARCH, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′592	15′485	16′240	15′691	14′936	13′150	12′326	11′879	12′772	14′249	14′523	15′004	15′108
5·0	14·592	15·519	16·240	15·691	14·592					14·249	14·592	15·142	15·691
10·0	14·728	15·657	16·309	15·553	14·386					14·219	14·400	14·936	16·274
15·0	14·867	15·828	16·309	15·553	14·454					14·249	14·386	15·142	16·515
20·0	14·867	15·897	16·309	15·623	14·249					14·317	14·386	15·074	16·447
25·0	14·936	15·966	16·309	15·348	13·906					14·386	14·386	14·867	16·240
30·0	15·004	15·966	16·240	15·280	13·906	12·533	12·463	12·188	13·527	14·523	14·386	14·867	15·966
35·0	15·211	16·034	16·240	15·142	13·768					14·488	14·454	15·004	15·623
40·0	15·280	16·136	16·240	15·211	13·974					14·488	14·523	15·038	15·382
45·0	15·280	16·172	16·209	15·280	13·562					14·463	14·523	14·798	15·280
50·0	15·314	16·172	16·172	15·280	13·355					14·454	14·660	14·728	15·004
55·0	15·314	16·309	15·966	14·936	13·355					14·386	14·936	14·728	14·936

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·420	17·500	17·530	17·500	17·550	17·360	17·240	17·015	17·030	16·910	16·710	16·330	15·980
7·0	17·440	17·490	17·520	17·430	17·575					16·920	16·710	16·270	16·010
12·0	17·420	17·500	17·500	17·445	17·575					16·880	16·690	16·265	16·290
17·0	17·450	17·525	17·480	17·550	17·600					16·880	16·720	16·230	16·450
22·0	17·490	17·490	17·450	17·590	17·575					16·860	16·662	16·260	16·580
27·0	17·465	17·640	17·450	17·590	17·560					16·870	16·670	16·250	16·640
32·0	17·460	17·590	17·450	17·600	17·575	17·250	17·080	17·025	16·910	16·885	16·660	16·220	16·680
37·0	17·480	17·490	17·505	17·640	17·570					16·920	16·600	16·190	16·670
42·0	17·460	17·455	17·625	17·570	17·500					16·925	16·520	16·150	16·680
47·0	17·500	17·490	17·550	17·560	17·450					16·900	16·450	16·150	16·680
52·0	17·510	17·520	17·520	17·575	17·410					16·880	16·420	16·200	16·580
57·0	17·540	17·550	17·465	17·550	17·380					16·760	16·350	16·170	16·600
Therm.	81°9	81°6	82°7	83°0	85°1	86°4		86°1	86°0	86°0	86°3	85°2	84°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	7·08·10	6·46·90	6·00·50	5·01·5	3·46·0					6·29·50	6·28·25	6·41·40	6·20·40
8·0	7·18·10	7·03·70	6·00·50	5·01·5	3·34·0					6·29·50	6·23·10	6·41·40	*
13·0	7·22·20	7·03·70	5·42·40	4·41·0	3·27·0					6·29·50	6·23·10	6·41·40	6·46·30
18·0	7·16·50	6·45·20	5·42·40	4·34·5	3·27·0					6·27·20	6·20·35	6·41·40	6·18·15
23·0	7·08·40	6·40·10	5·42·40	4·26·0	3·27·0					6·34·20	6·20·35	6·32·10	6·20·10
28·0	7·06·00	6·28·00	5·37·80	4·20·5	3·27·0	3·18·5		5·24·50	6·27·40	6·34·20	6·20·35	6·26·70	6·12·50
33·0	7·06·00	6·28·00	5·31·50	4·13·5	3·22·5					6·34·20	6·24·50	6·26·70	6·12·50
38·0	7·08·70	6·31·00	5·23·50	4·04·5	3·13·0					6·34·20	6·28·75	6·26·70	6·00·80
43·0	7·08·70	6·31·00	5·20·50	4·04·5	3·13·0					6·30·80	6·33·40	6·26·70	6·00·80
48·0	7·01·70	6·21·00	5·20·50	4·04·5	3·13·0					6·30·80	6·33·40	6·19·10	5·46·90
53·0	6·46·90	6·09·50	5·20·50	4·00·0	3·08·0					6·24·70	6·33·40	6·13·30	5·45·70
58·0	6·46·90	6·00·50	5·12·5	3·46·0	3·08·0	3·34·0	4·38·25	6·07·40	6·33·55	6·28·25	6·41·40	6·20·40	6·00·90
Therm.	84°0	82°6	82°9	82°2	84°7	85°7	85°5	85°5	85°5	86°2	86°3	85°9	85°7

* Vibrating very much.

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER (*in arc*).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	14′47	15′40	14′99	14′14	12′37	12′38	11′22	12′11	13′42	13′88	13′94	14′09
5·0	14·52	15·45	14·99	13·99					13·42	13·88	13·99	14·20
10·0	14·73	15·40	14·98	13·88					13·42	13·62	13·99	14·30
15·0	14·88	15·40	14·88	13·47					13·42	13·52	14·04	14·47
20·0	14·99	15·40	14·88	13·42					13·42	13·47	14·14	14·47
25·0	14·99	15·51	14·83	13·42					13·42	13·42	14·04	14·40
30·0	15·04	15·45	14·67	13·36	11·90	11·64	11·38	12·78	13·47	13·42	13·94	14·14
35·0	15·04	15·35	14·47	13·31					13·68	13·52	13·94	13·94
40·0	15·09	15·35	14·52	12·95					13·73	13·88	13·99	13·88
45·0	15·19	15·30	14·52	12·90					13·78	13·83	13·94	13·62
50·0	15·25	15·30	14·47	12·78					13·83	13·88	13·94	13·42
55·0	15·40	15·25	14·40	12·47					13·78	13·94	13·94	13·36

SMALL HORIZONTAL FORCE (*in Scale Readings*).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	4·090	3·820	3·450	3·300	3·490	3·730	3·480	3·380	3·450	3·220	2·820	2·400
7·0	4·100	3·800	3·380	3·250					3·490	3·200	2·780	2·290
12·0	4·060	3·850	3·340	3·300					3·520	3·190	2·750	2·380
17·0	3·990	3·820	3·360	3·340					3·470	3·160	2·700	2·470
22·0	3·920	3·800	3·400	3·280					3·400	3·200	2·820	2·800
27·0	3·990	3·700	3·370	3·230					3·400	3·220	2·600	2·980
32·0	3·980	3·690	3·300	3·300	3·570	3·550	3·600	3·240	3·400	3·200	2·580	3·000
37·0	3·930	3·710	3·390	3·350					3·380	3·190	2·520	3·100
42·0	3·870	3·680	3·300	3·370					3·330	3·140	2·500	3·130
47·0	3·790	3·570	3·320	3·300					3·290	3·060	2·490	3·100
52·0	3·720	3·490	3·290	3·400					3·300	2·970	2·470	3·090
57·0	3·800	3·380	3·210	3·490					3·290	2·900	2·490	3·100
Theam.	78°4	80°0	80°0	82°1	83°3	84°0	84°3	84°2	84°1	84°0	83°8	83°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°45′11	1°45′84	1°44′73	1°44′99	1°43′48	1°43′67	1°43′65	1°44′11	1°44′30	1°44′43	1°44′76	1°45′02
8·0	1·44·99	1·45·00	1·44·73	1·44·64					1·44·30	1·44·35	1·44·90	1·45·16
13·0	1·44·99	1·44·92	1·44·74	1·44·44					1·44·30	1·44·16	1·44·27	1·45·46
18·0	1·45·02	1·44·95	1·44·68	1·44·64					1·44·16	1·44·15	1·44·33	1·45·28
23·0	1·44·94	1·44·92	1·44·81	1·44·58					1·44·22	1·44·15	1·44·40	1·45·06
28·0	1·44·99	1·44·85	1·44·82	1·44·24					1·44·30	1·44·15	1·44·34	1·44·85
33·0	1·45·01	1·44·71	1·45·04	1·44·38	1·43·72	1·43·90	1·43·67	1·44·29	1·44·43	1·44·15	1·44·49	1·44·58
38·0	1·44·93	1·44·71	1·44·90	1·44·24					1·44·40	1·44·07	1·44·76	1·44·23
43·0	1·45·04	1·44·68	1·44·97	1·44·44					1·44·40	1·44·28	1·44·95	1·44·28
48·0	1·45·07	1·44·78	1·45·04	1·44·03					1·44·40	1·44·43	1·44·71	1·44·32
53·0	1·45·07	1·45·07	1·45·19	1·43·83					1·44·36	1·44·57	1·44·64	1·44·33
58·0	1·45·21	1·45·01	1·44·86	1·43·69					1·44·30	1·44·60	1·44·64	1·44·41

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH MARCH, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14·867	15·623	16·447	16·309	15·966	13·974	12·533	12·188	12·840	13·562	14·076	14·317	14·523
5·0	14·762	15·691	16·515	16·309	15·691					13·630	14·076	14·317	14·523
10·0	14·901	15·828	16·447	16·309	15·623					13·700	14·249	14·420	14·523
15·0	14·970	15·897	16·447	16·309	15·623					13·768	14·213	14·488	14·523
20·0	15·033	15·897	16·447	16·309	15·623					13·871	14·249	14·660	14·523
25·0	15·211	15·897	16·309	16·206	15·280					13·906	14·249	14·694	14·528
30·0	15·142	15·966	16·481	16·000	15·280	12·876	12·188	12·290	13·219	13·974	14·249	14·832	14·557
35·0	15·211	15·966	16·653	16·034	15·004					14·008	14·249	14·867	14·523
40·0	15·346	16·102	16·653	16·034	14·867					14·076	14·317	14·832	14·557
45·0	15·382	16·240	16·618	16·068	14·660					14·111	14·317	14·728	14·557
50·0	15·485	16·309	16·378	15·966	14·249					14·111	14·317	14·660	14·528
55·0	15·623	16·378	16·309	15·966	14·249					14·076	14·249	14·592	14·523

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·700	17·770	18·075	18·275	18·350	18·100	17·800	17·435	17·110	16·850	16·762	16·750	16·890
7·0	17·605	17·825	18·100	18·300	18·350					16·830	16·770	16·715	16·900
12·0	17·720	17·810	18·165	18·250	18·300					16·810	16·770	16·700	16·895
17·0	17·740	17·875	18·225	18·300	18·350					16·810	16·780	16·700	16·895
22·0	17·730	17·910	18·255	18·300	18·325					16·800	16·785	16·710	16·885
27·0	17·710	17·885	18·300	18·300	18·290					16·800	16·790	16·730	16·880
32·0	17·700	17·925	18·300	18·300	18·200	17·950	17·600	17·260	16·950	16·790	16·800	16·730	16·880
37·0	17·760	17·960	18·300	18·300	18·200					16·765	16·800	16·790	16·880
42·0	17·825	18·020	18·300	18·350	18·150					16·775	16·800	16·810	16·880
47·0	17·760	18·030	18·300	18·300	18·150					16·780	16·800	16·845	16·880
52·0	17·760	18·050	18·250	18·300	18·100					16·760	16·810	16·880	16·880
57·0	17·750	18·080	18·250	18·300	18·100					16·750	16·800	16·880	16·890
Therm.	79°8	80°0	81°0	83°0	84°0	84°8	85°0	85°4	85°8	85°8	85°9	86°2	84°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	8·08·00	7·32·25	7·07·20	6·18·25	5·33·40					7·12·65	7·10·80	7·02·50	7·22·70
8·0	7·32·25	7·32·25	7·00·00	6·18·25	5·33·40					7·16·65	7·10·80	7·02·50	7·22·70
13·0	7·32·25	7·32·25	6·45·90	6·18·25	5·26·80					7·16·65	7·10·85	7·10·70	7·22·70
18·0	7·32·25	7·23·00	6·45·90	6·18·25	5·26·80					7·16·65	7·02·50	7·10·70	7·17·90
23·0	7·32·25	7·23·00	6·38·40	6·10·15	5·19·65					7·16·85	7·02·50	7·15·20	7·15·00
28·0	7·32·25	7·18·50	6·34·00	6·10·15	5·19·65	4·42·25	5·26·85	6·19·45	7·03·10	7·16·85	7·02·50	7·15·20	7·11·60
33·0	7·32·25	7·18·50	6·34·00	6·10·15	5·13·25					7·16·85	7·02·50	7·26·50	7·11·60
38·0	7·32·25	7·18·50	6·24·50	6·10·15	5·13·25					7·16·85	7·02·50	7·26·50	7·11·60
43·0	7·32·25	7·18·50	6·24·50	6·01·90	5·05·85					7·16·85	7·02·50	7·22·70	7·04·80
48·0	7·32·25	7·14·90	6·24·50	6·10·90	5·05·85					7·10·80	7·02·50	7·22·70	7·01·90
53·0	7·32·25	7·14·90	6·24·50	5·45·50	4·42·25					7·10·80	7·02·50	7·22·70	7·01·90
58·0	7·32·25	7·07·20	6·18·25	5·42·50	4·42·25	5·04·00	5·47·50	6·42·10	7·12·65	7·10·80	7·02·50	7·22·70	7·01·90
Therm.	82°5	81°5	81°7	82°5	83°2	84°0	84°5	85°2	85°8	86°6	87°0	86°5	86°9

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER (*in arc*).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14'09	14'88	14'88	14'47	12'46	10'86	10'81	11'43	12'31	12'78	12'90	13'05
5·0	14·14	14·92	14·78	14·40					12·37	12·78	12·90	12·95
10·0	14·20	14·92	14·78	14·25					12·37	12·83	12·90	12·95
15·0	14·35	14·92	14·78	14·09					12·37	12·83	13·05	12·95
20·0	14·40	14·99	14·67	13·99					12·37	12·90	13·36	12·90
25·0	14·40	14·99	14·62	13·94					12·37	12·90	13·42	13·10
30·0	14·47	14·99	14·73	13·73	11·59	10·81	10·96	11·86	12·42	12·90	13·42	12·90
35·0	14·47	14·92	14·73	13·57					12·47	12·90	13·42	12·95
40·0	14·47	14·99	14·57	13·42					12·63	12·90	13·42	12·90
45·0	14·52	14·99	14·62	13·26					12·57	12·90	13·42	13·00
50·0	14·73	14·99	14·62	12·90					12·68	12·90	13·42	13·05
55·0	14·73	14·92	14·73	12·73					12·78	12·90	13·42	12·95

SMALL HORIZONTAL FORCE (*in Scale Readings*).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	3·900	3·980	4·180	4·070	3·980	3·600	3·140	2·800	2 500	2·490	2·570	2·870
7·0	3·900	3·990	4·200	4·100					2·490	2·490	2·520	2·880
12·0	3·910	3·990	4·200	4·120					2·500	2·490	2·500	2·880
17·0	3·900	4·030	4·190	4·170					2·490	2·500	2·540	2·900
22·0	3·900	4·050	4·190	4·190					2·500	2·520	2·570	2·890
27·0	3·900	4·070	4·180	4·170					2·490	2·540	2·600	2·900
32·0	3·900	4·100	4·130	4·140	3·850	3·390	2·840	2·650	2·480	2·570	2·600	2·890
37·0	3·900	4·110	4·150	4·100					2·490	2·580	2·650	2·900
42·0	3·900	4·100	4·160	4·090					2·480	2·588	2·700	2·910
47·0	3·900	4·100	4·130	4·000					2·470	2·590	2·760	2·960
52·0	3·920	4·130	4·080	4·000					2·480	2·600	2·800	2·940
57·0	3·920	4·170	4·050	3·970					2·490	2·600	2·820	2·980
Therm.	78°0	78°4	79°8	80°3	82·0	84°0	84·6	85°2	85°7	84°4	84°0	83°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°45'38	1°45'49	1°45'07	1°45'44	1°41'30	1°44'01	1°44'39	1°44'61	1°44'90	1°44'97	1°45'08	1°44'99
8·0	1·46·45	1·45·42	1·45·07	1·45·16					1·44·97	1·44·97	1·46·08	1·44·99
13·0	1·45·59	1·45·35	1·45·21	1·45·24					1·45·04	1·45·30	1·45·18	1·44·99
18·0	1·45·22	1·45·35	1·45·21	1·45·24					1·44·96	1·45·26	1·44·96	1·44·99
23·0	1·45·08	1·45·35	1·45·21	1·45·24					1·45·06	1·45·30	1·44·99	1·44·99
28·0	1·45·08	1·45·21	1·45·11	1·45·04					1·45·10	1·45·44	1·45·02	1·44·85
33·0	1·45·16	1·45·24	1·45·04	1·45·04	1·44·36	1·44·39	1·44·49	1·44·70	1·45·02	1·45·30	1·45·02	1·44·89
38·0	1·45·16	1·45·41	1·45·07	1·44·76					1·44·77	1·45·30	1·45·06	1·44·85
43·0	1·45·29	1·45·41	1·45·22	1·44·78					1·44·83	1·45·37	1·45·02	1·44·89
48·0	1·45·43	1·45·38	1·45·46	1·44·57					1·44·87	1·45·37	1·44·92	1·44·89
53·0	1·45·50	1·45·14	1·45·30	1·44·16					1·44 87	1·45·37	1·44·99	1·44·85
58·0	1·45·57	1·45·07	1·46·44	1·44·44					1·44·83	1·45·30	1·44·92	1·44·99

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14'042	14'592	15'519	15'348	14'970	13'389	12'583	13'321	14'317	15'211	15'485	14'936	14'008
5·0	14·179	14·728	15·485	15·725	14·936					15·280	15·519	14·798	13·940
10·0	14·249	14·798	15·519	15·897	14·936					15·280	15·519	14·660	13·906
15·0	14·213	14·936	15·553	15·931	14·936					15·280	15·519	14·660	13·906
20·0	14·317	15·074	15·485	15·966	14·592					15·280	15·519	14·660	13·974
25·0	14·420	15·142	15·485	15·845	14·592					15·348	15·485	14·592	13·837
30·0	14·386	15·280	15·416	15·725	14·249	12·533	12·876	13·768	14·335	15·348	15·416	14·523	13·768
35·0	14·523	15·280	15·416	15·623	14·213					15·348	15·382	14·523	13·768
40·0	14·488	15·348	15·416	15·623	13·974					15·416	15·280	14·523	13·768
45·0	14·626	15·348	15·623	15·623	13·906					15·450	15·211	14·249	13·768
50·0	14·592	15·416	15·460	15·460	13·562					15·485	15·176	14·179	13·768
55·0	14·592	15·416	15·348	14·970	13·562					15·519	15·074	14·042	13·768

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·265	18·460	18·730	19·100	19·150	19·040	18·750	18·325	17·910	17·710	17·530	17·480	17·540
7·0	18·250	18·390	18·790	19·100	19·140					17·700	17·510	17·470	17·515
12·0	18·300	18·470	18·810	19·110	19·150					17·700	17·515	17·460	17·515
17·0	18·255	18·425	18·880	19·100	19·150					17·690	17·500	17·455	17·500
22·0	18·260	18·515	18·910	19·100	19·150					17·677	17·500	17·460	17·495
27·0	18·265	18·505	18·930	19·100	19·150					17·675	17·500	17·470	17·490
32·0	18·305	18·545	18·945	19·100	19·150	18·850	18·500	18·160	17·790	17·655	17·490	17·510	17·490
37·0	18·250	18·535	18·950	19·100	19·150					17·610	17·490	17·510	17·500
42·0	18·285	18·630	18·955	19·100	19·150					17·610	17·490	17·510	17·500
47·0	18·290	18·670	19·050	19·150	19·100					17·590	17·490	17·510	17·510
52·0	18·360	18·675	19·050	19·150	19·090					17·570	17·470	17·520	17·510
57·0	18·370	18·710	19·100	19·155	19·065					17·550	17·480	17·530	17·510
Therm.	80°7	81°0	81°9	83°3	84°6	85°1	85°8	86°0	86°0	86°3	86°2	85°8	84°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·33·20	8·22·60	7·25·40	7·12 20	5·44·35					7·25·70	6·44·75	6·08·20	6·24·60
8·0	8·25·50	8·22·60	7·21·50	7·03·00	5·34·90					7·20·90	6·38·90	6·08·20	6·37·70
13·0	8·25·50	8·22·60	7·17·00	7·03·00	5·34·90					7·20·90	6·38·90	6·08·20	6·37·70
18·0	8·255·0	8·16·50	7·17·00	7·03·00	5·34·90					7·15·75	6·33·20	6·08·20	6·43·60
23·0	8·25·50	8·16·50	7·17·00	6·37·50	5·23·60					7·15·75	6·33·20	6·08·20	6·43·60
28·0	8·25·50	8·10·80	7·17·00	6·37·50	5·23·60	5·44·65	6·00·70	7·18·60	7·28·85	7·11·20	6·26·50	6·08·20	6·43·60
33·0	8·25·50	8·06·60	7·12·20	6·23·40	5·23·60					7·11·20	6·20·50	6·08·20	6·43·60
38·0	8·25·50	8·00·70	7·12·20	6·23·40	5·23·60					7·11·20	6·20·50	6·03·20	6·43·60
43·0	8·25·50	7·45·70	7·12·20	6·23·40	5·15·85					7·06·25	6·20·50	6·03·20	6·43·60
48·0	8·25·50	7·41·80	7·12·20	6·06·80	5·15·85					7·06·25	6·15·10	6·10·70	6·43·60
53·0	8·25·50	7·36·20	7·12·20	6·00·35	5·15·85					7·00·80	6·15·10	6·23·60	6·43·60
58·0	8·25·50	7·30·00	7·12·20	5·44·35	5·15·80	6·27·65	6·48·10	7·23·90	7·28·85	7·44·75	6·15·10	6·24·60	6·43·60
Therm.	82°5	81°8	82°0	82°5	83°5	84°1	84°7	85°2	85°8	86°7	87°0	87°0	86°0

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14′62	15′40	15′51	14′88	12′95	12′11	12′90	14′04	14′78	15′04	14′47	13′62
5·0	14·73	15·45	15·56	14·83					14·93	15·09	14·47	13·47
10·0	14·83	15·51	15·56	14·62					14·99	15·09	14·47	13·47
15·0	14·92	15·51	15·71	14·47					14·99	15·14	14·40	13·47
20·0	14·99	15·51	15·77	14·25					14·88	15·04	14·25	13·42
25·0	14·99	15·45	15·66	14·20					14·83	14·99	14·09	13·42
30·0	15·04	15·45	15·51	13·99	11·85	12·37	13·42	14·47	14·93	14·99	13·99	13·42
35·0	15·09	15·19	15·45	13·94					14·99	14·99	13·94	13·42
40·0	15·19	15·40	15·40	13·68					14·99	14·99	13·94	13·42
45·0	15·25	15·51	15·14	13·47					14·99	14·93	13·94	13·42
50·0	15·30	15·51	14·99	13·36					15·04	14·78	13·88	13·42
55·0	15·45	15·51	14·93	13·26					15·04	14·62	13·83	13·42

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	3·900	4·210	4·540	4·700	4·640	4·265	3·790	3·310	3·200	3·020	3·100	3·280
7·0	3·980	4·220	4·590	4·700					3·200	3·000	3·090	3·240
12·0	3·940	4·260	4·600	4·709					3·190	3·000	3·080	3·200
17·0	3·990	4·290	4·600	4·640					3·180	3·000	3·090	3·230
22·0	4·000	4·340	4·600	4·720					3·160	3·000	3·090	3·200
27·0	4·030	4·370	4·600	4·750					3·140	3·020	3·100	3·190
32·0	4·070	4·400	4·610	4·700	4·350	4·000	3·590	3·220	3·130	3·000	3·100	3·200
37·0	4·100	4·390	4·600	4·750					3·100	3·000	3·120	3·190
42·0	4·120	4·400	4·620	4·700					3·090	3·000	3·150	3·180
47·0	4·170	4·430	4·640	4·730					3·090	3·000	3·200	3·200
52·0	4·190	4·490	4·680	4·700					3·050	3·080	3·200	3·200
57·0	4·200	4·520	4·720	4·700					3·040	3·090	3·230	3·210
Therm.	77°9	78°4	80°0	80°4	82°0	83°4	84°0	84°5	84°0	84°0	83°9	82°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°45′93	1°45′85	1°45′68	1°45′44	1°45′16	1°45′45	1°45′66	1°46′38	1°46′69	1·46·88	1°46′71	1°46′35
8·0	1·46·07	1·45·82	1·45·92	1·45·56					1·46·76	1·46·86	1·46·57	1·46·43
13·0	1·46·14	1·45·85	1·46·09	1·45·56					1·46·76	1·46·86	1·46·43	1·46·54
18·0	1·46·13	1·45·88	1·46·12	1·45·84					1·46·76	1·46·86	1·46·48	1·46·54
23·0	1·46·26	1·45·82	1·46·16	1·45·64					1·46·76	1·46·86	1·46·57	1·46·75
28·0	1·46·04	1·45·96	1·46·04	1·45·78					1·46·83	1·46·97	1·46·50	1·46·62
33·0	1·45·90	1·45·89	1·46·06	1·45·44	1·45·45	1·45·80	1·46·40	1·46·11	1·46·83	1·46·90	1·46·48	1·46·55
38·0	1·45·75	1·45·89	1·45·95	1·45·55					1·46·83	1·47·01	1·46·43	1·46·55
43·0	1·45·82	1·45·89	1·45·95	1·45·31					1·46·76	1·46·91	1·46·43	1·46·55
48·0	1·45·82	1·46·09	1·45·95	1·45·25					1·46·79	1·46·84	1·46·16	1·46·55
53·0	1·45·75	1·45·79	1·45·79	1·45·04					1·46·83	1·46·81	1·46·24	1·46·55
58·0	1·45·75	1·45·68	1·45·80	1·45·19					1·46·86	1·46·70	1·46·10	1·46·55

TERM HOUR OBSERVATIONS ON THE 30TH AND 31ST MARCH 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'074	16'172	16'378	15'845	14'936	13'219	11'945	10'916	11'776	12'876	13'903	14'111	13'425
5·0	15·074	16·034	16·584	15·725	14·936					12·876	13·940	13·974	13·459
10·0	15·245	16·309	16·584	15·416	14·936					13·047	14·008	13·974	13·389
15·0	15·280	16·378	16·515	15·416	14·592					13·219	14·042	13·905	13·349
20·0	15·553	16·309	16·515	15·314	14·420					13·219	14·111	13·837	13·459
25·0	15·485	16·378	16·378	15·280	14·317					13·287	14·145	13·768	13·459
30·0	15·553	16·584	16·309	15·280	14·317	12·533	10·848	11·191	12·256	13·355	14·179	13·768	13·493
35·0	15·691	16·584	16·309	15·280	13·974					13·562	14·225	13·768	13·493
40·0	15·691	16·584	16·274	15·211	14·076					13·700	13·974	13·768	13·425
45·0	15·691	16·447	16·034	15·211	13·906					13·768	14·042	13·768	13·425
50·0	15·966	16·515	15·966	15·004	13·630					13·906	14·145	13·562	13·425
55·0	15·966	16·515	15·966	14·970	13·219					13·906	14·111	13·425	13·425

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·160	18·330	18·535	18·800	18·950	18·850	18·660	18·280	18·090	17·700	17·550	17·545	17·580
7·0	18·160	18·200	18·575	18·860	18·950					17·660	17·550	17·545	17·570
12·0	18·180	18·320	18·585	18·900	18·900					17·660	17·540	17·520	17·560
17·0	18·160	18·220	18·640	18·900	18·900					17·650	17·500	17·580	17·550
22·0	18·200	18·240	18·640	18·900	18·850					17·650	17·500	17·580	17·550
27·0	18·250	18·260	18·650	18·900	18·850					17·625	17·500	17·580	17·540
32·0	18·175	18·340	18·690	18·950	18·850	18·710	18·440	18·200	17·920	17·600	17·550	17·580	17·525
37·0	18·190	18·360	18·650	18·950	18·900					17·560	17·550	17·590	17·530
42·0	18·210	18·340	18·700	18·950	18·950					17·570	17·570	17·560	17·550
47·0	18·200	18·430	18·737	18·855	18·950					17·550	17·540	17·580	17·550
52·0	18·200	18·380	18·800	18·950	18·850					17·520	17·530	17·580	17·540
57·0	18·260	18·500	18·800	18·950	18·850					17·550	17·540	17·600	17·420
Therm.	80°6	81°0	82°2	83°8	84°4		85°5	86·0	85°9	86°0	85°9	85°3	84°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	6·49·20	6·35·00	5·30·50	4·12·50	3·36·80					6·38·00	6·42·00	6·18·40	6·08·00
8·0	6·49·20	6·29·50	5·24·50	4·12·50	3·27·35					6·38·00	6·42·00	6·18·00	6·08·00
13·0	6·49·20	6·28·30	5·19·00	4·04·25	3·27·35					6·43·45	6·37·05	6·18·00	6·17·70
18·0	6·46·00	6·25·00	5·12·50	4·04·25	3·27·35					6·43·45	6·37·05	6·15·20	6·23·40
23·0	6·46·00	6·21·00	5·03·00	4·04·25	3·27·35					6·43·45	6·37·05	6·15·20	6·23·40
28·0	6·46·00	6·21·00	4·48·50	4·04·25	3·20·50	3·04·00		5·29·70	6·26·40	6·43·45	6·37·05	6·15·20	6·28·40
33·0	6·46·00	6·13·00	4·48·50	4·04·25	3·20·50					6·46·90	6·32·80	6·15·20	6·30·30
38·0	6·46·00	6·09·00	4·29·30	3·48·00	3·20·50					6·46·90	6·32·80	6·15·20	6·30·30
43·0	6·45·00	6·00·50	4·29·30	3·48·00	3·20·50					6·46·90	6·32·80	6·15·20	6·36·60
48·0	6·42·50	6·00·50	4·21·70	3·48·00	3·20·50					6·42·00	2·32·80	6·15·20	6·36·60
53·0	6·42·50	5·43·50	4·19·10	3·36·80	3·20·50					6·42·00	6·32·80	6·15·20	6·36·60
58·0	6·35·00	5·38·60	4·12·50	3·36·80	3·20·50	3·29·10	5·31·00	6·15·35	6·38·00	6·42·00	6·32·80	6·08·00	6·36·60
Therm.	82°5	81°7	82°2	83°0	83°8	84°5	84°7	85°2	85°7	86°3	86°7	86°4	85°5

TERM HOUR OBSERVATIONS ON THE 30TH AND 31ST MARCH 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15′45	15′71	14′99	14′20	12′42	10′94	10′02	11′01	11′95	12′95	13′21	12′63
5·0	15·45	15·77	14·98	14·09					12·05	13·00	13·00	12·68
10·0	15·51	15·77	14·83	13·99					12·26	13·05	12·95	12·68
15·0	15·51	15·71	14·78	13·88					12·31	13·16	12·90	12·68
20·0	15·51	15·66	14·73	13·83					12·37	13·26	12·90	12·73
25·0	15·56	15·56	14·62	13·68					12·37	13·26	12·90	12·73
30·0	15·56	15·51	14·47	13·42	11·59	10·28	10·28	11·38	12·63	13·26	12·90	12·73
35·0	15·56	15·51	14·47	13·31					12·78	13·26	12·90	12·57
40·0	15·56	15·45	14·47	13·16					12·83	13·26	12·90	12·47
45·0	15·61	15·35	14·40	12·90					12·90	13·26	12·90	12·63
50·0	15·66	15·19	14·35	12·78					12·90	13·21	12·90	12·63
55·0	15·71	14·99	14·20	12·63					12·90	13·21	12·78	12·68

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	3·820	4·000	4·390	4·590	4·600	4·540	4·160	4·000	3·760	3·600	3·630	3·690
7·0	3·830	4·050	4·400	4·580					3·600	3·600	3·610	3·650
12·0	3·810	4·090	4·460	4·590					3·630	3·620	3·690	3·650
17·0	3·820	4·100	4·490	4·600					3·630	3·600	3·690	3·660
22·0	3·820	4·100	4·500	4·570					3·630	3·590	3·700	3·630
27·0	3·820	4·100	4·500	4·600					3·650	3·600	3·700	3·620
32·0	3·890	4·100	4·500	4·540	4·510	4·300	4·135	3·825	3·590	3·650	3·700	3·640
37·0	3·920	4·100	4·520	4·610					3·590	3·680	3·700	3·630
42·0	3·940	4·150	4·580	4·680					3·570	3·700	3·680	3·650
47·0	3·980	4·190	4·570	4·630					3·600	3·760	3·680	3·600
52·0	3·980	4·300	4·590	4·610					3·600	3·700	3·700	3·630
57·0	3·990	4·340	4·600	4·600					3·600	3·670	3·700	3·610
Therm.	78°0	79°8	81°7	82°2	83°9	84°2	85°2	85°0	85°0	84°2	84°1	83°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′64	1°46′71	1°46′18	1°45′70	1°45′13	1°44′77	1°44′70	1°44′99	1°45′51	1°45′25	1°45′59	1°45′05
8·0	1·46·50	1·46·77	1·46·05	1·45·84					1·45·51	1·45·28	1·45·45	1·45·22
13·0	1·46·64	1·46·77	1·45·89	1·46·13					1·45·38	1·45·35	1·45·31	1·45·16
18·0	1·46·71	1·46·57	1·45·89	1·45·78					1·45·28	1·45·38	1·45·25	1·45·16
23·0	1·46·64	1·46·57	1·45·78	1·45·76					1·44·99	1·45·45	1·45·11	1·45·23
28·0	1·46·71	1·46·43	1·45·75	1·45·66					1·45·06	1·45·49	1·45·11	1·45·23
33·0	1·46·91	1·46·50	1·45·75	1·45·66	1·45·45	1·44·63	1·44·69	1·45·04	1·45·13	1·45·52	1·45·11	1·45·26
38·0	1·46·91	1·46·50	1·45·90	1·45·45					1·45·33	1·45·57	1·45·11	1·45·26
43·0	1·46·91	1·46·16	1·45·83	1·45·55					1·45·33	1·45·45	1·45·11	1·45·20
48·0	1·46·78	1·46·36	1·45·83	1·45·39					1·45·25	1·45·52	1·44·90	1·45·31
53·0	1·46·85	1·46·30	1·45·62	1·45·26					1·45·39	1·45·48	1·45·04	1·45·34
58·0	1·46·85	1·46·30	1·45·73	1·44·99					1·45·39	1·45·45	1·44·87	1·45·20

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′527	14′454	15′416	15′966	14′592	13′219	11′845	11′569	11′947	13′253	14′128	14′592	13′562
5·0	13·527	14·488	15·485	15·931	14·592					13·338	14·213	14·523	13·425
10·0	13·630	14·592	15·623	15·623	14·317					13·425	14·249	14·386	13·355
15·0	13·768	14·626	15·558	15·623	13·974					13·459	14·317	14·042	13·355
20·0	14·008	14·832	15·623	15·623	13·906					13·600	14·266	14·042	13·321
25·0	14·111	14·936	15·691	15·623	13·906					13·630	14·386	14·042	13·321
30·0	13·974	15·038	15·691	15·382	13·906	12·468	11·776	11·501	12·635	13·700	14·488	14·042	13·321
35·0	14·042	15·142	15·623	15·280	13·906					13·768	14·488	13·974	13·287
40·0	14·145	15·074	15·623	15·211	13·906					13·837	14·488	13·768	13·321
45·0	14·179	15·211	15·691	14·970	13·287					13·974	14·523	13·734	13·287
50·0	14·351	15·245	15·623	14·910	13·287					14·093	14·523	13·700	13·287
55·0	14·351	15·280	15·966	14·650	13·287					14·128	14·557	13·630	13·321

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·180	18·305	18·660	19·150	19·400	19·360	19·140	18·740	18·400	18·075	17·750	17·590	17·750
7·0	18·120	18·315	18·700	19·225	19·400					18·065	17·725	17·580	17·750
12·0	18·180	18·440	18·750	19·250	19·440					18·050	17·710	17·790	17·780
17·0	18·150	18·450	18·830	19·300	19·450					18·030	17·700	17·780	17·810
22·0	18·180	18·495	18·870	19·300	19·450					18·015	17·690	17·740	17·900
27·0	18·190	18·485	18·920	19·300	19·450					17·990	17·675	17·700	17·930
32·0	18·215	18·540	18·920	19·375	19·450	19·162	18·850	18·560	18·210	17·970	17·635	17·660	17·950
37·0	18·240	18·525	18·980	19·400	19·400					17·942	17·620	17·710	17·940
42·0	18·310	18·540	19·000	19·400	19·400					17·890	17·620	17·785	17·965
47·0	18·320	18·570	19·050	19·450	19·400					17·860	17·620	17·800	18·000
52·0	18·325	18·580	19·050	19·400	19·400					17·810	17·600	17·795	18·000
57·0	18·315	18·580	19·150	19·420	19·400					17·810	17·590	17·720	18·010
Therm.	81°0	81°2	82°3	83°7	84°0	84°5	85°0	85°1	85°0	84°8	84°6	84°0	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·12·30	8·10·80	7·40·30	6·48·90	5·40·00					7·37·10	7·44·95	7·21·90	7·16·60
8·0	7·49·50	8·10·80	7·40·30	6·48·90	5·40·00					7·40·40	7·44·95	7·21·90	7·16·60
13·0	7·49·50	8·04·00	7·40·30	6·32·25	5·34·10					7·40·40	7·44·95	7·02·20	7·16·60
18·0	8·10·00	8·04·00	7·40·30	6·32·25	5·34·10					7·40·40	7·44·95	7·09·00	7·16·60
23·0	8·10·00	8·04·00	7·35·30	6·32·25	5·22·05					7·40·40	7·44·25	7·09·00	7·16·60
28·0	8·14·50	8·04·00	7·35·30	6·20·25	5·22·05	5·08·70	5·34·05	6·14·60	7·23·50	7·44·35	7·40·50	7·14·20	7·16·60
33·0	8·14·50	8·04·00	7·35·30	6·20·25	5·22·05					7·44·35	7·40·50	7·14·20	7·16·60
38·0	8·14·50	7·49·80	7·26·50	6·20·25	5·22·05					7·44·35	7·38·00	7·08·20	7·16·60
43·0	8·10·80	7·49·80	7·19·50	6·07·50	5·22·05					7·48·45	7·38·00	7·08·20	7·16·60
48·0	8·10·80	7·49·80	7·19·50	6·07·50	5·16·50					7·48·45	7·38·00	7·08·20	7·20·60
53·0	8·10·80	7·49·80	7·09·40	6·07·50	5·16·50					7·48·45	7·30·80	7·08·20	7·20·60
58·0	8·10·80	7·45·50	7·09·40	6·48·15	5·16·50	5·19·50	5·44·25	6·44·80	7·37·10	7·44·95	7·30·80	7·16·60	7·27·20
Therm.	83°4	82°5	82°5	83°3	83°6	84°0	84°5	84°6	85°2	85°5	85°6	85°2	84°3

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13′78	14′47	14′99	13′88	12′37	11′07	10′81	11′33	12′68	13′42	13′94	12′90
5·0	13·88	14·52	14·99	13·62					12·63	13·42	13·94	12·90
10·0	13·88	14·57	14·93	13·47					12·73	13·57	13·83	12·90
15·0	13·94	14·67	14·93	13·42					12·78	13·68	13·42	12·90
20·0	13·94	14·78	14·83	13·31					12·90	13·78	13·42	12·78
25·0	13·99	14·93	14·78	13·05					12·90	13·83	13·42	12·73
30·0	14·09	14·99	14·62	12·90	11·59	10·81	10·81	11·85	12·95	13·88	13·42	12·78
35·0	14·20	14·99	14·47	12·90					13·05	13·83	13·36	12·52
40·0	14·30	14·99	14·40	12·73					13·31	13·88	13·10	12·47
45·0	14·40	14·99	14·30	12·68					13·31	13·94	12·95	12·63
50·0	14·47	14·99	14·14	12·52					13·36	13·94	12·90	12·52
55·0	14·47	14·99	13·94	12·42					13·42	13·94	12·90	12·57

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	4·130	4·360	4·890	5·080	5·000	4·750	4·400	4·000	3·490	3·090	3·070	3·400
7·0	4·180	4·420	4·900	5·090					3·500	3·100	3·150	3·420
12·0	4·200	4·470	4·940	5·050					3·420	3·090	3·280	3·490
17·0	4·200	4·540	4·990	5·100					3·395	3·090	3·390	3·520
22·0	4·220	4·600	5·000	5·100					3·350	3·070	3·300	3·600
27·0	4·250	4·670	4·990	5·090					3·340	3·080	3·290	3·620
32·0	4·260	4·700	5·030	5·100	4·750	4·500	4·140	3·780	3·300	3·060	3·300	3·600
37·0	4·280	4·700	5·070	5·110					3·240	3·020	3·280	3·660
42·0	4·300	4·760	5·080	5·050					3·200	3·020	3·290	3·720
47·0	4·300	4·800	5·100	5·090					3·190	3·020	3·330	3·740
52·0	4·310	4·880	5·100	5·050					3·200	3·000	3·380	3·720
57·0	4·320	4·850	5·100	5·040					3·140	3·010	3·390	3·700
Therm.	78°4	79°8	80°4	81°9	82°4	84°0	84°0	83°8	83°8	83°6	82°2	81°7

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46′22	1°46′60	1°46′29	1°45′93	1°45′84	1°45′48	1°45′34	1°45′44	1°46′08	1°46′46	1°46′50	1°46′19
8·0	1·46·11	1·46·67	1·46·40	1·46·07					1·45·96	1·46·55	1·46·29	1·46·20
13·0	1·46·22	1·46·67	1·46·09	1·45·79					1·46·05	1·46·58	1·46·29	1·46·13
18·0	1·46·10	1·46·45	1·46·24	1·45·60					1·45·94	1·46·65	1·46·95	1·46·13
23·0	1·46·31	1·46·52	1·46·24	1·45·53					1·45·94	1·46·86	1·46·24	1·46·10
28·0	1·46·41	1·46·31	1·46·38	1·45·67					1·46·12	1·46·58	1·46·38	1·46·10
33·0	1·46·37	1·46·16	1·46·43	1·45·67	1·45·38	1·45·41	1·45·43	1·45·84	1·46·33	1·46·54	1·46·38	1·46·10
38·0	1·46·48	1·46·09	1·46·47	1·45·81					1·46·39	1·46·68	1·46·31	1·46·20
43·0	1·46·41	1·45·95	1·46·40	1·46·10					1·46·46	1·46·68	1·46·25	1·46·24
48·0	1·46·55	1·46·02	1·46·31	1·45·48					1·46·60	1·46·58	1·46·36	1·46·20
53·0	1·46·58	1·45·95	1·46·25	1·45·62					1·46·58	1·46·58	1·46·38	1·46·20
58·0	1·46·47	1·46·29	1·46·00	1·45·77					1·46·46	1·46·46	1·46·26	1·46·39

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′901	16′000	17′497	17′407	16′309	14′351	12′806	13′150	13′906	14′249	14′420	14′213	14′179
5·0	14·832	16·206	17·407	17·407	15·966					14·283	14·420	14·283	14·111
10·0	14·867	16·447	17·407	17·339	15·725					14·283	14·420	14·249	14·042
15·0	14·936	16·653	17·475	17·339	15·623					14·283	14·420	14·249	14·042
20·0	15·108	16·858	17·612	17·339	15·623					14·317	14·386	14·179	14·042
25·0	15·176	16·996	17·782	17·339	15·372					14·317	14·386	14·042	14·008
30·0	15·657	17·064	17·509	17·270	15·314	14·249	12·703	13·442	14·886	14·317	14·317	14·042	14·008
35·0	15·897	17·270	17·339	16·996	15·280					14·351	14·249	14·179	14·042
40·0	16·034	17·339	17·339	16·653	15·280					14·351	14·179	14·179	14·111
45·0	16·068	17·407	17·407	16·653	15·382					14·351	14·179	14·179	14·111
50·0	16·034	17·407	17·612	16·653	14·936					14·420	14·179	14·179	14·111
55·0	16·378	17·407	17·475	16·481	14·626					14·420	14·179	14·179	14·141

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·050	17·780	18·085	18·430	18·550	18·400	18·375	17·985	17·575	17·250	17·120	16·950	16·850
7·0	17·895	17·910	18·080	18·400	18·550					17·245	17·132	16·950	16·900
12·0	17·800	18·060	18·200	18·450	18·550					17·200	17·275	16·950	16·780
17·0	17·795	18·100	18·260	18·450	18·550					17·200	17·055	16·960	16·785
22·0	17·795	18·125	18·250	18·400	18·550					17·190	17·050	16·960	16·775
27·0	17·910	18·145	18·250	18·410	18·500					17·172	17·020	16·970	16·810
32·0	17·995	18·195	18·280	18·460	18·400	18·450	18·250	17·725	17·407	17·155	16·975	16·970	16·830
37·0	17·890	18·170	18·250	18·450	18·400					17·135	16·960	16·900	16·840
42·0	17·860	18·170	18·250	18·400	18·400					17·132	17·010	16·900	16·860
47·0	17·955	18·195	18·250	18·400	18·415					17·105	17·000	16·915	16·915
52·0	17·975	18·170	18·300	18·402	18·500					17·110	16·960	16·860	16·960
57·0	17·910	18·135	18·360	18·500	18·500					17·107	16·920	16·850	17·010
Therm.	79°3	79°9	80°9	82°8	84°2.	85°3	86°0	86°9	87°2	87°1	87°0	86°3	85°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·28·50	8·18·90	7·22·10	5·46·30	5·10·50					5·09·20	5·27·00	5·23·20	5·42·80
8·0	8·34·00	8·18·90	7·22·10	5·46·30	5·10·50					5·09·20	5·27·00	5·23·20	5·42·80
13·0	8·34·00	8·16·80	7·12·40	5·46·30	5·10·50					5·09·20	5·30·80	5·23·20	6·07·10
18·0	8·34·00	8·12·70	7·06·60	5·37·90	5·10·50					5·09·20	5·30·80	5·18·10	6·07·10
23·0	8·34·00	8·03·00	7·00·90	5·37·90	5·10·50					5·09·20	5·30·80	5·18·10	6·07·10
28·0	8·34·00	8·03·00	7·00·90	5·37·90	5·10·50	5·15·75		5·04·30	5·14·15	5·09·20	5·30·80	5·22·90	6·07·10
33·0	8·38·30	8·03·00	6·38·20	5·37·90	5·10·50					5·29·85	5·26·35	5·27·40	6·07·10
38·0	8·42·40	8·03·00	6·38·20	5·37·90	5·10·50					5·29·85	5·26·35	5·34·80	6·07·10
43·0	8·35·20	7·41·60	6·27·25	5·33·15	5·10·50					5·26·85	5·19·80	5·34·80	6·07·10
48·0	8·35·20	7·41·60	6·27·25	5·33·15	5·01·90					5·26·85	5·19·80	5·34·80	6·04·00
53·0	8·24·50	7·34·90	6·11·25	5·33·15	5·01·90					5·26·85	5·23·20	5·42·80	6·04·00
58·0	8·18·90	7·31·40	6·11·25	5·20·50	5·01·90	5·39·20	5·17·10	5·04·30	5·09·20	5·27·00	5·23·20	5·42·80	6·04·00
Therm.	82°0	81°1	81°4	82°0	83°2	84°5	86°0	85°7	86°6	86°9	87°6	87°3	86°2

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15′61	16′82	16′76	15′71	13′88	12′11	12′42	13′26	13′47	13′78	13′42	13′42
5·0	15·66	16·82	16·76	15·40					13·62	13·78	13·42	13·42
10·0	15·92	16·76	16·71	15·19					13·68	13·78	13·42	13·42
15·0	16·09	16·82	16·56	15·04					13·62	13·83	13·42	13·42
20·0	16·14	16·82	16·56	14·99					13·68	13·88	13·42	13·42
25·0	16·30	16·87	16·50	14·78					13·73	13·88	13·42	13·42
30·0	16·56	16·92	16·45	14·73	12·50	12·11	12·90	13·42	13·78	13·62	13·42	13·42
35·0	16·66	16·87	16·45	14·62					13·78	13·47	13·42	13·42
40·0	16·66	16·87	16·24	14·47					13·78	13·42	13·42	13·42
45·0	16·71	16·82	16·04	14·25					13·83	13·42	13·42	13·42
50·0	16·82	16·82	16·04	13·99					13·83	13·42	13·42	13·42
55·0	16·87	16·82	15·92	13·94					13·83	13·42	13·42	13·42

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	2·490	2·480	2·790	3·120	3·150	3·240	2·810	2·590	2·240	2·200	2·050	2·030
7·0	2·400	2·400	2·800	3·200					2·260	2·220	2·020	2·050
12·0	2·500	2·440	2·800	3·240					2·200	2·200	2·040	2·000
17·0	2·530	2·560	2·820	3·270					2·250	2·190	2·070	2·020
22·0	2·600	2·590	2·800	3·290					2·250	2·150	2·090	2·050
27·0	2·630	2·560	2·820	3·200					2·260	2·130	2·080	2·060
32·0	2·600	2·480	2·800	3·130	3·300	3·150	2·620	2·420	2·240	2·100	2·100	2·080
37·0	2·600	2·530	2·830	3·100					2·270	2·100	2·060	2·090
42·0	2·590	2·590	2·890	3·140					2·230	2·080	2·040	2·080
47·0	2·530	2·600	2·920	3·160					2·200	2·100	2·020	2·100
52·0	2·500	2·600	2·980	3·190					2·180	2·100	2·000	2·140
57·0	2·490	2·720	3·020	3·200					2·200	2·070	2·030	2·200
Therm.	76°2	77°8	79°9	81°8	82°4	84°6	83°8	86°0	85°7	85°6	84°2	83°7

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′34	1°47′78	1°47′45	1°46′92	1°46′12	1°46′44	1°46′22	1°46′24	1°46′01	1°46′33	1°46′84	1°46′80
8·0	1·47·54	1·47·73	1·47·45	1·46·86					1·46·05	1·46·33	1·46·77	1·46·74
13·0	1·47·06	1·47·59	1·47·52	1·46·91					1·46·05	1·46·33	1·46·73	1·46·67
18·0	1·47·12	1·47·66	1·47·52	1·46·96					1·45·76	1·46·33	1·46·73	1·46·67
23·0	1·47·18	1·47·80	1·47·52	1·46·96					1·45·79	1·46·44	1·46·66	1·46·67
28·0	1·47·32	1·47·97	1·47·52	1·46·71					1·45·94	1·46·44	1·46·53	1·46·78
33·0	1·47·39	1·47·69	1·47·46	1·46·65	1·47·16	1·45·77	1·46·07	1·46·44	1·45·94	1·46·51	1·46·53	1·46·63
38·0	1·47·60	1·47·52	1·47·18	1·46·62					1·56·12	1·46·44	1·46·66	1·46·67
43·0	1·47·66	1·47·52	1·46·98	1·46·62					1·46·12	1·46·51	1·46·80	1·46·74
48·0	1·47·73	1·47·59	1·46·98	1·46·86					1·46·12	1·46·66	1·46·80	1·46·74
53·0	1·47·59	1·47·80	1·46·98	1·46·41					1·46·19	1·46·66	1·46·80	1·46·74
58·0	1·47·59	1·47·52	1·46·95	1·46·25					1·46·19	1·46·80	1·46·80	1·46·74

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH APRIL, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·111	13·871	14·523	14·936	14·351	13·150	12·256	11·845	12·188	13·338	14·592	14·008	13·219
5·0	14·042	13·630	14·488	14·936	14·386					13·562	14·660	13·906	13·184
10·0	14·042	13·802	14·523	14·936	14·249					13·664	14·660	13·906	13·081
15·0	13·974	13·871	14·592	14·936	14·249					13·906	14·660	13·768	13·013
20·0	13·974	14·008	14·626	14·970	14·249					13·974	14·660	13·700	13·013
25·0	13·837	14·179	14·660	14·970	14·249					14·179	14·626	13·630	13·081
30·0	13·802	14·386	14·798	14·936	13·664	12·876	12·050	11·845	12·738	14·351	14·592	13·425	13·150
35·0	13·837	14·249	14·936	14·936	13·596					14·488	14·592	13·355	13·150
40·0	13·596	14·317	14·936	14·936	13·493					14·488	14·592	13·355	13·355
45·0	13·493	14·386	14·936	14·694	13·287					14·557	14·179	13·355	13·219
50·0	13·700	14·454	14·936	14·660	13·219					14·592	14·179	13·219	13·287
55·0	13·768	14·488	14·936	14·592	13·150					14·592	14·111	13·219	13·355

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·880	18·200	18·650	18·745	18·900	18·750	18·505	18·300	17·800	17·240	16·900	17·480	17·420
7·0	17·815	18·165	18·700	18·750	18·900					17·150	16·925	17·450	17·420
12·0	17·872	18·345	18·660	18·750	18·932					17·097	16·930	17·430	17·380
17·0	17·925	18·400	18·640	18·750	18·900					17·070	16·960	17·470	17·435
22·0	17·950	18·295	18·655	18·800	18·910					17·027	17·000	17·500	17·450
27·0	18·010	18·345	18·700	18·800	18·950					16·965	17·020	17·470	17·450
32·0	17·940	18·450	18·750	18·800	18·950	18·515	18·400	18·130	17·510	16·950	17·020	17·495	17·450
37·0	17·940	18·490	18·750	18·850	18·950					16·930	17·020	17·450	17·370
42·0	18·030	18·560	18·700	18·860	18·950					16·900	17·100	17·410	17·310
47·0	18·170	18·565	18·700	18·900	18·950					16·870	17·510	17·410	17·345
52·0	18·110	18·550	18·750	18·920	18·860					16·870	17·430	17·410	17·325
57·0	18·250	18·610	18·750	18·915	18·840					16·870	17·430	17·410	17·360
Therm.	82°0	82°3	88°5	85°0	86°0	87°2	87°7	88°0	88°0	88°3	86°2	87°8	86°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	6·20·00	6·14·40	6·18·70	6·10·50	5·09·80					6·40·45	6·34·70	6·00·00	6·00·00
8·0	6·20·00	6·20·00	6·18·70	6·10·50	5·09·80					6·47·00	6·34·70	6·00·00	6·00·00
13·0	6·20·00	6·20·00	6·18·70	6·01·00	5·01·75					7·01·40	6·31·70	6·00·00	6·09·30
18·0	6·14·40	6·26·60	6·18·70	6·01·00	4·43·90					7·01·40	6·28·65	6·00·00	6·09·30
23·0	6·14·40	6·26·60	6·18·70	5·43·30	4·37·50					7·01·40	6·22·90	6·00·00	6·09·30
28·0	6·14·40	6·33·20	6·18·70	5·43·30	4·37·50	4·26·75	5·02·10	5·44·25	6·27·30	7·01·40	6·22·90	6·00·00	6·15·60
33·0	6·14·40	6·33·20	6·10·50	5·34·75	4·26·90					6·47·65	6·22·90	5·44·30	6·15·60
38·0	6·14·40	6·27·50	6·10·50	5·34·75	4·26·90					6·47·65	6·24·00	5·44·30	6·29·50
43·0	6·14·40	6·27·50	6·10·50	5·22·50	4·16·50					6·40·00	6·18·00	5·44·30	6·29·50
48·0	6·14·40	6·21·80	6·10·50	5·22·50	4·16·50					6·40·00	5·40·50	6·00·00	6·29·50
53·0	6·14·40	6·21·80	6·10·50	5·22·50	4·16·50					6·34·70	6·00·00	6·00·00	6·29·50
58·0	6·14·40	6·18·70	6·10·50	5·09·80	4·10·50	4·32·30	5·19·70	6·19·10	6·40·45	6·34·70	6·00·00	6·00·00	6·29·50
Therm.	84°5	83°5	83°9	84°5	85°5	86°5	87°0	87°2	88°0	88°6	89°2	88°9	87°9

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	13′16	13′04	14′47	13′58	12′37	11′85	11′33	11′79	12′90	13′99	13′36	12′42
5·0	13·10	13·94	14·47	13·33					12·90	13·99	13·21	12·37
10·0	13·10	13·94	14·47	13·68					13·05	13·99	13·26	12·37
15·0	13·31	13·99	14·47	13·52					13·16	14·04	13·05	12·37
20·0	13·42	13·99	14·47	13·42					13·42	13·94	12·90	12·37
25·0	13·52	14·04	14·47	13·36					13·47	13·94	12·90	12·42
30·0	13·68	14·09	14·40	13·10	11·90	11·33	11·38	12·11	13·73	13·94	12·83	12·47
35·0	13·83	14·09	14·35	12·90					13·88	13·94	12·68	12·63
40·0	13·88	14·14	14·20	12·68					13·94	13·88	12·68	12·78
45·0	13·83	14·25	14·09	12·63					13·94	13·42	12·63	12·63
50·0	13·88	14·35	13·99	12·57					13·94	13·42	12·52	12·68
55·0	13·88	14·47	13·94	12·37					13·94	13·42	12·47	12·73

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
2·0										34·780	35·730	36·040
7·0										34·800	35·780	36·090
12·0										34·800	35·820	36·190
17·0										34·920	35·875	36·270
22·0										34·945	35·900	36·340
27·0					Instrument undergoing adjustment.					34·990	35·960	36·360
32·0										35·025	35·930	36·290
37·0										35·050	35·950	36·250
42·0										35·350	35·900	36·220
47·0										35·490	35·950	36·210
52·0										35·590	35·990	36·240
57·0										35·640	36·050	36·270
Therm.										86°3	86°1	85°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°47′08	1°47′44	1°47′71	1°47′27	1°47′37	1°46′47	1°46′48	1°46′54	1°46′97	1°47′51	1°47′21	1°47′28
8·0	1·46·84	1·47·40	1·47·71	1·47·30					1·46·91	1·47·58	1·47·11	1·47·25
13·0	1·46·87	1·47·44	1·47·71	1·47·16					1·46·87	1·47·58	1·47·11	1·47·30
18·0	1·46·94	1·47·37	1·47·85	1·47·31					1·46·97	1·47·58	1·47·11	1·47·23
23·0	1·47·07	1·47·40	1·47·89	1·47·45					1·46·89	1·47·58	1·47·05	1·47·23
28·0	1·47·38	1·47·44	1·47·89	1·47·59					1·47·09	1·47·54	1·46·98	1·47·30
33·0	1·47·45	1·47·57	1·47·85	1·47·16	1·47·23	1·46·41	1·46·48	1·46·80	1·47·27	1·47·66	1·46·77	1·47·37
38·0	1·47·31	1·47·56	1·47·71	1·47·37					1·47·26	1·47·66	1·46·70	1·47·37
43·0	1·47·38	1·47·56	1·47·71	1·47·56					1·47·26	1·47·80	1·46·99	1·47·57
48·0	1·47·45	1·47·56	1·47·47	1·46·92					1·47·33	1·47·38	1·47·28	1·47·43
53·0	1·47·52	1·47·56	1·47·44	1·47·28					1·47·37	1·47·38	1·47·14	1·47·50
58·0	1·47·55	1·47·71	1·47·51	1·47·22					1·47·51	1·47·32	1·47·28	1·47·57

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′038	15′725	17′133	17′167	15′966	13′562	12′188	12′601	13′562	14′111	14′592	14′111	14′111
5·0	15·108	15·966	17·270	16·996	15·691					14·213	14·592	14·111	14·111
10·0	15·142	16·240	17·133	16·996	15·460					14·249	14·592	14·042	14·111
15·0	15·416	16·309	17·201	16·996	15·280					14·317	14·592	13·974	14·145
20·0	15·587	16·378	17·098	16·996	15·280					14·317	14·592	13·974	14·179
25·0	15·691	16·584	17·201	16·823	14·936					14·120	14·454	13·974	14·179
30·0	15·897	16·618	17·030	16·653	14·592	12·703	12·188	13·081	13·940	14·454	14·454	13·940	14·249
35·0	15·691	16·789	17·270	16·653	14·420					14·523	14·454	13·940	14·219
40·0	15·587	16·823	17·339	16·584	14·283					14·557	14·317	13·974	14·249
45·0	15·794	16·926	17·339	15·966	14·076					14·523	14·317	13·974	14·249
50·0	15·794	16·960	17·339	15·966	13·906					14·523	14·317	13·974	14·283
55·0	15·725	16·996	17·339	15·966	13·734					14·523	14·317	14·111	14·283

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	16·860	17·150	17·200	17·550	17·600	17·500	17·150	17·075	16·837	16·805	16·600	16·540	16·360
7·0	16·700	17·190	17·200	17·550	17·600					16·770	16·600	16·500	16·360
12·0	16·690	17·235	17·220	17·570	17·550					16·730	16·590	16·490	16·360
17·0	16·730	17·350	17·260	17·550	17·550					16·715	16·577	16·490	16·360
22·0	16·770	17·365	17·280	17·500	17·550					16·670	16·570	16·490	16·350
27·0	16·830	17·305	17·265	17·450	17·550					16·660	16·570	16·490	16·360
32·0	16·865	17·250	17·300	17·460	17·550	17·330	17·050	16·915	16·875	16·655	16·550	16·490	16·360
37·0	16·920	17·270	17·350	17·495	17·500					16·635	16·550	16·480	16·350
42·0	16·965	17·285	17·350	17·500	17·500					16·645	16·540	16·450	16·320
47·0	17·035	17·270	17·400	17·510	17·500					16·630	16·540	16·450	16·300
52·0	17·085	17·240	17·450	17·510	17·500					16·620	16·540	16·420	16·300
57·0	17·145	17·210	17·475	17·515	17·500					16·600	16·550	16·360	16·300
Therm.	82°0	82°2	84°0	85°5	86°0	86°0	86°0	86°3	86°5	86°6	86°8	86°2	85°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	7·24·90	7·21·60	6·45·00	5·26·50	4·22·20					6·12·55	6·13·25	6·05·45	6·34·80
8·0	7·24·90	7·21·60	6·35·80	5·26·50	4·22·20					6·20·10	6·13·25	6·10·90	6·34·80
13·0	7·31·50	7·21·60	6·26·70	5·26·50	4·22·20					6·20·10	6·10·10	6·10·90	7·00·40
18·0	7·31·50	7·13·20	6·26·70	5·26·50	4·22·20					6·20·10	6·10·10	6·10·90	7·00·40
23·0	7·31·50	7·13·20	6·26·70	5·09·40	4·22·20					6·20·10	6·10·10	6·19·50	7·00·40
28·0	7·31·50	7·09·30	6·15·50	5·09·40	4·22·20	4·40·00	5·25·85	6·09·90	6·12·55	6·20·10	6·05·45	6·19·50	7·00·40
33·0	7·31·50	7·09·30	6·14·70	4·49·25	4·22·20					6·16·10	6·05·45	6·19·50	7·00·40
38·0	7·25·10	7·03·00	6·14·70	4·49·25	4·22·20					6·16·10	6·05·45	6·24·00	7·07·80
43·0	7·25·10	7·03·00	6·03·50	4·43·10	4·29·00					6·16·10	6·05·45	6·30·00	7·13·70
48·0	7·21·30	6·49·70	5·47·75	4·43·10	4·29·00					6·13·25	6·05·45	6·30·00	7·13·10
53·0	7·17·30	6·49·70	5·47·75	4·30·20	4·29·00					6·13·25	6·05·45	6·34·80	7·13·10
58·0	7·17·30	6·45·00	5·38·40	4·30·20	4·29·00	5·11·15	6·01·35	6·12·55	6·12·55	6·13·25	6·05·45	6·34·80	7·15·10
Therm.	84°0	83°4	84°0	84°5	85°3	85°5	86°0	86°2	86°7	87°5	87°8	87°5	86°5

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15′19	16′24	16′45	14′99	12′68	11′33	11′85	12′90	13′42	13′94	13′42	13′42
5·0	15·45	16·30	16·40	14·78					13·47	13·94	13·42	13·42
10·0	15·56	16·30	16·35	14·62					13·62	13·94	13·42	13·42
15·0	15·61	16·35	16·30	14·47					13·68	13·94	13·42	13·42
20·0	15·61	16·45	16·14	14·30					13·73	13·94	13·42	13·47
25·0	15·71	16·50	16·04	14·14					13·88	13·88	13·42	13·47
30·0	15·82	16·45	15·92	13·94	11·85	11·59	12·37	13·31	13·88	13·94	13·42	13·47
35·0	16·04	16·45	15·82	13·88					13·94	13·88	13·42	13·47
40·0	16·04	16·45	15·56	13·62					13·94	13·78	13·42	13·52
45·0	16·09	16·45	15·45	13·42					13·94	13·62	13·42	13·68
50·0	16·19	16·50	15·30	13·05					13·94	13·57	13·42	13·62
55·0	16·30	16·50	15·19	12·90					13·94	13·47	13·42	13·62

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	35·800	36·090	36·300	36·380	36·290	35·900	35·780	35·650	35·500	35·310	35·370	35·300
7·0	35·790	36·100	36·400	36·360					35·400	35·260	35·345	35·320
12·0	35·800	36·100	36·370	36·425					35·320	35·280	35·360	35·230
17·0	35·880	36·140	36·320	36·350					35·400	35·300	35·350	35·375
22·0	35·900	36·170	36·300	36·400					35·380	35·300	35·400	35·340
27·0	35·900	36·120	36·300	36·340					35·350	35·320	35·400	35·320
32·0	35·980	36·100	36·300	36·300	36·100	35·900	35·650	35·670	35·360	35·300	35·400	35·310
37·0	36·030	36·180	36·290	36·240					35·330	35·350	35·370	35·300
42·0	36·100	36·160	36·300	36·260					35·340	35·350	35·390	35·350
47·0	36·100	36·130	36·310	36·290					35·360	35·330	35·360	35·340
52·0	36·090	36·140	36·320	36·340					35·350	35·320	35·340	35·350
57·0	36·080	36·220	36·340	36·380					35·320	35·340	35·300	35·350
Therm.	79°7	80°2	81°8	83°7	84°2	85°4	85°8	86°0	86°0	86°0	85°7	84°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′07	1°47′46	1°47′50	1°47′31	1°46′48	1°46′34	1°46′24	1°46′19	1°46′74	1°46′36	1°46′89	1°46′89
8·0	1·47·31	1·47·46	1·47·19	1·47·03					1·46·84	1·46·50	1·46·89	1·46·89
13·0	1·47·68	1·47·32	1·47·33	1·46·80					1·46·45	1·46·50	1·46·82	1·46·89
18·0	1·47·65	1·47·39	1·47·33	1·46·76					1·46·09	1·46·50	1·46·75	1·46·93
23·0	1·47·57	1·47·29	1·47·47	1·46·76					1·46·09	1·46·79	1·46·75	1·46·96
28·0	1·47·77	1·47·53	1·47·68	1·46·57					1·46·19	1·46·94	1·46·75	1·46·96
33·0	1·47·81	1·47·36	1·47·55	1·46·50	1·46·20	1·45·97	1·46·29	1·46·43	1·46·22	1·46·94	1·46·72	1·47·03
38·0	1·47·69	1·47·46	1·47·84	1·46·19					1·46·29	1·47·08	1·46·72	1·47·17
43·0	1·47·44	1·47·53	1·47·77	1·46·48					1·46·33	1·46·95	1·46·89	1·47·03
48·0	1·47·30	1·47·53	1·47·31	1·46·57					1·46·29	1·47·09	1·46·89	1·47·03
53·0	1·47·29	1·47·67	1·47·31	1·46·69					1·46·29	1·47·10	1·46·89	1·47·06
58·0	1·37·33	1·47·67	1·47·31	1·46·51					1·46·29	1·47·10	1·47·08	1·47·06

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′553	16′996	17′339	15′966	13′596	11′327	11′157	11′608	13′013	14′660	15′280	14′523	13′562
5·0	15·623	17·064	17·270	15·966	13·562					14·728	15·211	14·386	13·562
10·0	15·691	17·098	17·270	15·966	13·562					14·728	15·108	14·317	13·527
15·0	15·862	17·270	17·201	15·623	12·876					14·936	15·074	14·145	13·493
20·0	16·068	17·339	17·064	15·280	12·976					15·004	15·074	14·042	13·425
25·0	16·309	17·475	16·926	15·280	12·428					15·004	15·004	13·974	13·459
30·0	16·687	17·475	16·996	15·008	12·188	10·814	11·225	12·326	13·974	15·004	15·004	13·906	13·425
35·0	16·653	17·441	16·447	14·936	12·188					15·108	14·936	13·906	13·355
40·0	16·653	17·475	16·447	14·867	11·845					15·211	14·932	13·837	13·355
45·0	16·789	17·544	16·309	14·592	11·501					15·280	14·728	13·768	13·425
50·0	16·892	17·544	16·309	14·249	11·501					15·280	14·626	13·630	13·425
55·0	16·926	17·407	16·206	14·179	11·501					15·280	14·592	13·562	13·287

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·890	17·990	18·300	18·800	18·850	18·900	18·575	18·200	17·857	17·650	17·570	17·560	17·560
7·0	17·900	18·000	18·235	18·800	18·850					17·640	17·570	17·560	17·570
12·0	17·880	18·060	18·250	18·900	18·950					17·640	17·580	17·560	17·550
17·0	17·895	18·060	18·350	19·000	18·950					17·560	17·607	17·590	17·550
22·0	17·875	18·045	18·420	19·000	18·985					17·590	17·590	17·560	17·550
27·0	17·900	18·100	18·450	19·000	18·900					17·610	17·590	17·605	17·550
32·0	17·920	18·140	18·500	19·000	18·900	18·755	18·350	17·970	17·705	17·610	17·550	17·625	17·550
37·0	17·915	18·130	18·500	18·965	18·890					17·595	17·560	17·590	17·530
42·0	17·970	18·030	18·650	18·960	18·875					17·530	17·560	17·560	17·480
47·0	17·970	18·100	18·700	18·925	18·850					17·560	17·570	17·560	17·440
52·0	17·975	18·180	18·700	18·900	18·890					17·600	17·570	17·550	17·535
57·0	18·000	18·250	18·750	18·860	18·900					17·590	17·570	17·550	17·690
Therm.	82°1	82°7	83°8	85°0	86°0	87°0	87°0	87°2	87°2	87°0	86°4	85°8	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·02·60	8·06·30	6·30·90	4·42·00	4·03·50					8·11·75	7·41·70	6·46·00	6·41·60
8·0	8·12·00	7·49·10	6·22·20	4·42·00	4·03·50					8·11·75	7·36·00	6·46·00	7·07·50
13·0	8·12·00	7·45·00	6·22·20	4·35·10	3·48·80					8·11·75	7·32·10	6·40·00	7·07·50
18·0	8·17·90	7·45·00	6·07·10	4·30·50	3·48·80					8·18·10	7·26·15	6·40·00	7·12·20
23·0	8·17·90	7·39·00	5·48·90	4·30·50	3·48·80					8·11·35	7·26·15	6·31·80	7·12·20
28·0	8·17·90	7·31·90	5·32·65	4·24·10	3·48·80	5·07·90	6·29·35	7·32·35	8·11·75	8·11·35	7·24·00	6·31·80	7·12·20
33·0	8·22·90	7·23·40	5·32·65	4·24·10	3·48·80					8·06·75	7·24·00	6·31·80	7·12·20
38·0	8·22·90	7·18·00	5·23·50	4·24·10	4·03·90					8·06·75	7·17·80	6·31·80	7·12·20
43·0	8·22·90	7·18·00	5·13·10	4·14·25	4·03·90					8·03·20	7·12·80	6·31·80	7·12·20
48·0	8·15·30	7·06·40	5·02·70	4·14·25	4·14·55					8·03·20	7·12·80	6·31·80	7·12·20
53·0	8·15·30	6·49·20	5·02·70	4·14·25	4·18·50					7·41·70	7·08·10	6·36·10	7·12·20
58·0	8·06·30	6·39·30	5·02·70	4·03·50	4·21·00	5·39·95	7·01·30	7·40·60	8·11·75	7·41·70	7·08·10	6·41·60	7·04·70
Therm.	84°5	83°6	83°8	84°5	85°3	85°9	86°5	87°2	87°5	87°7	87°5	87°1	86°0

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′56	16′76	15′40	13′10	10′69	10′28	10′91	12′37	13′94	14′47	13′78	12′90
5·0	16·56	16·71	15·25	12·90					13·94	14·47	13·62	12·90
10·0	16·56	16·56	15·09	12·78					13·94	14·47	13·42	12·90
15·0	16·56	16·56	14·88	12·52					13·99	14·47	13·42	12·90
20·0	16·66	16·45	14·67	12·16					14·20	14·40	13·42	12·90
25·0	16·71	16·30	14·52	11·90					14·20	14·36	13·36	12·90
30·0	16·76	16·19	14·47	11·85	10·28	10·81	11·85	13·42	14·35	14·35	13·31	12·90
35·0	16·76	16·04	14·35	11·64					14·40	14·20	13·26	12·83
40·0	16·82	16·04	14·14	11·33					14·47	14·09	13·16	12·78
45·0	16·82	15·82	13·94	11·17					14·47	13·94	12·90	12·33
50·0	16·82	15·56	13·68	10·86					14·47	13·94	12·90	12·63
55·0	16·76	15·51	13·42	10·81					14·47	13·94	12·90	12·52

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	36·850	37·120	37·790	38·020	38·120	37·700	37·300	36·920	36·800	36·800	36·850	36·920
7·0	36·840	37·130	37·880	38·100					36·800	36·790	36·830	36·950
12·0	36·850	37·200	38·000	38·090					36·850	36·800	36·850	36·940
17·0	36·870	37·240	38·100	38·100					36·830	36·840	36·890	36·930
22·0	36·840	37·330	38·190	38·070					36·720	36·800	36·880	36·920
27·0	36·380	37·420	38·150	38·050					36·800	36·840	36·900	36·940
32·0	36·900	37·480	38·150	38·050	37·850	37·450	36·980	36·840	36·850	36·780	36·890	36·960
37·0	36·900	37·560	38·120	38·030					36·820	36·800	36·890	36·900
42·0	36·920	37·630	38·080	38·050					36·830	36·810	36·900	36·900
47·0	36·940	37·700	38·000	38·040					36·800	36·800	36·900	36·850
52·0	37·020	37·720	38·040	38·090					36·830	36·820	36·900	36·890
57·0	37·100	37·780	38·020	38·100					36·850	36·800	36·920	36·950
Therm.	79°8	80°4	82°0	83°7	84°0	86°0	86°4	86°5	86°0	85°8	84°3	83°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′33	1°47′39	1°46′47	1°45′80	1°45′69	1°45′52	1°45′67	1°46′93	1°46′29	1°46′18	1°46′29	1°46′19
8·0	1·47·39	1·47·18	1·46·47	1·46·05					1·46·20	1·46·30	1·46·16	1·46·34
13·0	1·47·41	1·47·18	1·46·82	1·46·34					1·46·07	1·46·30	1·46·09	1·46·31
18·0	1·47·60	1·47·11	1·46·81	1·45·66					1·46·13	1·46·41	1·45·92	1·46·27
23·0	1·47·67	1·46·97	1·46·62	1·45·79					1·46·19	1·46·41	1·45·81	1·46·21
28·0	1·47·67	1·46·84	1·46·62	1·45·50					1·46·19	1·46·34	1·45·74	1·46·24
33·0	1·47·67	1·46·91	1·46·49	1·45·40	1·45·17	1·45·58	1·45·83	1·46·17	1·46·05	1·46·48	1·45·82	1·46·21
38·0	1·47·49	1·46·50	1·46·57	1·45·40					1·46·16	1·46·42	1·45·54	1·46·14
43·0	1·47·52	1·46·64	1·46·64	1·45·49					1·46·11	1·46·21	1·45·47	1·46·14
48·0	1·47·59	1·46·50	1·46·36	1·45·43					1·46·04	1·46·11	1·45·97	1·46·14
53·0	1·47·59	1·46·64	1·46·26	1·45·72					1·45·90	1·46·26	1·46·26	1·46·21
58·0	1·47·45	1·46·54	1·46·24	1·45·77					1·46·04	1·46·22	1·46·19	1·46·07

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′789	17′887	16′996	15′966	14′249	12′188	11′501	11′913	12′360	13′389	13′906	14′042	13′734
5·0	16·806	17·682	16·858	15·931	14·249					13·389	13·906	14·042	13·664
10·0	17·235	17·921	16·789	15·794	13·596					13·459	13·940	14·008	13·630
15·0	17·270	17·921	16·755	15·348	13·562					13·527	13·974	14·008	13·700
20·0	17·544	17·682	16·721	15·280	13·562					13·596	14·076	13·974	13·630
25·0	17·887	17·682	16·653	15·280	13·459					13·664	14·145	13·974	13·630
30·0	18·025	17·544	16·395	15·280	13·013	11·845	11·845	12·188	12·978	13·734	14·179	13·906	13·664
35·0	17·819	17·407	16·309	15·108	12·876					13·802	14·179	13·906	13·700
40·0	17·682	17·476	16·309	14·936	12·806					13·871	14·249	13·974	13·664
45·0	17·612	17·270	16·309	14·867	12·876					13·906	14·249	13·974	13·837
50·0	17·887	17·133	16·309	14·760	12·738					13·906	14·249	13·837	13·768
55·0	17·990	17·064	15·966	14·317	12·394					13·940	14·042	13·837	13·871

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·025	18·165	18·450	18·650	18·750	18·450	18·300	18·010	17·755	17·590	17·560	17·490	17·430
7·0	17·960	18·150	18·490	18·700	18·700					17·600	17·530	17·490	17·445
12·0	17·990	18·150	18·500	18·700	18·700					17·600	17·535	17·480	17·400
17·0	18·020	18·165	18·500	18·700	18·650					17·600	17·540	17·480	17·380
22·0	18·050	18·125	18·500	18·700	18·630					17·590	17·530	17·480	17·400
27·0	18·130	18·295	18·555	18·700	18·600					17·580	17·530	17·480	17·390
32·0	18·165	18·385	18·500	18·700	18·600	18·330	18·100	17·870	17·640	17·580	17·520	17·500	17·360
37·0	18·135	18·300	18·650	18·750	18·600					17·550	17·510	17·490	17·250
42·0	18·120	18·305	18·650	18·750	18·595					17·545	17·510	17·480	17·315
47·0	18·145	18·340	18·650	18·750	18·550					17·540	17·510	17·460	17·380
52·0	18·075	18·370	18·650	18·750	18·550					17·530	17·490	17·420	17·385
57·0	18·175	18·410	18·625	18·750	18·450					17·535	17·510	17·400	17·270
Therm.	80°7	81°7	82°7	83°9	84°2	85°0	85°0	85°3	85°8	86°0	85°8	84°8	84°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·42·90	7·35·50	6·23·10	5·07·85	4·29·00					6·27·30	6·25·75	6·23·40	*6·23·40
8·0	8·42·90	7·26·10	6·19·60	5·07·85	4·29·00					6·24·75	6·25·75	6·23·40	*6·31·70
13·0	8·42·90	7·21·20	6·15·40	4·49·00	4·29·00					6·24·75	6·30·55	6·23·40	*
18·0	8·36·50	7·13·50	6·09·40	4·49·00	4·29·00					6·24·75	6·30·55	6·23·40	*6·11·60
23·0	8·36·50	7·03·00	6·09·40	4·41·90	4·29·00					6·24·75	6·30·55	6·23·40	*6·22·80
28·0	8·26·70	6·45·90	5·46·60	4·41·90	4·29·00	5·11·75	5·19·10	5·48·00	6·24·70	6·25·40	6·33·05	6·23·40	*6·25·80
33·0	8·20·00	6·41·90	5·35·25	4·41·90	4·29·00					6·25·40	6·33·05	6·23·40	*6·31·70
38·0	8·14·20	6·41·90	5·35·25	4·34·60	4·29·00					6·25·40	6·33·05	6·23·40	*6·33·80
43·0	8·10·30	6·41·90	5·35·25	4·34·60	4·22·50					6·25·40	6·28·05	6·23·40	*6·38·40
48·0	8·01·30	6·31·60	5·19·90	4·34·60	4·34·20					6·25·40	2·28·00	6·23·40	*6·34·80
53·0	7·41·90	6·31·60	5·19·90	4·34·60	4·40·05					6·25·40	6·23·40	6·23·40	*6·38·00
58·0	7·35·50	6·23·10	5·19·90	4·29·00	4·43·00	5·40·50	5·36·00	6·00·25	6·26·50	6·25·75	6·23·40	6·23·40	*6·37·60
Therm.	82°9	82°5	82°9	83°5	84°0	84°5	85°0	86°7	85°7	86°5	86°5	86°0	84°9

* Vibrating very much.

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17'08	16'25	15'30	13'52	11'79	11'33	11'33	11'90	12'83	13'42	13'52	12'95
5·0	17·08	16·24	15·19	13·42					12·90	13·42	13·42	12·90
10·0	17·08	16·19	14·99	13·26					12·90	13·42	13·42	12·90
15·0	17·08	16·04	14·83	13·00					12·90	13·42	13·42	12·90
20·0	17·02	16·04	14·67	12·90					12·90	13·42	13·42	12·90
25·0	16·87	16·04	14·52	12·57					13·00	13·42	13·42	12·90
30·0	16·66	15·92	14·47	12·42	11·33	11·33	11·59	12·37	13·10	13·47	13·42	12·90
35·0	16·56	15·77	14·47	12·16					13·31	13·52	13·42	12·90
40·0	16·56	15·71	14·40	12·00					13·36	13·57	13·42	12·90
45·0	16·56	15·51	14·14	11·85					13·36	13·68	13·42	12·90
50·0	16·56	15·51	13·94	11·85					13·36	13·68	13·26	13·05
55·0	16·56	15·45	13·73	11·85					13·42	13·73	13·10	13·26

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	36·940	37·200	37·300	37·480	37·100	36·900	36·610	36·400	26·400	36·400	36·530	36·590
7·0	36·930	37·230	37·340	37·450					36·400	36·440	36·500	36·620
12·0	36·950	37·220	37·350	37·450					36·430	36·445	36·500	36·650
17·0	36·980	37·250	37·340	37·400					36·420	36·470	36·520	36·640
22·0	36·990	37·260	37·320	37·340					36·400	36·490	36·550	36·650
27·0	37·000	37·280	37·350	37·310					36·390	36·480	36·550	36·630
32·0	37·020	37·300	37·400	37·280	37·000	36·800	36·490	36·350	36·350	36·490	36·570	36·600
37·0	37·050	37·320	37·430	37·300					36·390	36·480	36·590	36·590
42·0	37·100	37·350	37·430	37·360					36·400	36·460	36·600	36·600
47·0	37·120	37·360	37·480	37·300					36·400	36·480	36·600	36·580
52·0	37·130	37·320	37·450	37·230					36·430	36·490	36·620	36·575
57·0	37·150	37·300	37·460	37·180					36·450	36·500	36·570	36·600
Therm.	79°6	80°0	81°8	82°3	83°8	84°4	85°2	85°6	85°7	84°4	84°0	82°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°47'94	1°47'19	1°46'87	1°46'02	1°45'54	1°45'36	1°45'98	1°45'67	1°46'17	1°45'82	1°45'81	1°45'93
8·0	1·47·78	1·47·05	1·46·98	1·46·16					1·46·27	1·45·82	1·45·81	1·46·13
13·0	1·47·97	1·46·97	1·46·98	1·45·51					1·45·80	1·45·85	1·45·78	1·46·26
18·0	1·47·83	1·46·95	1·46·52	1·45·62					1·45·44	1·45·88	1·45·92	1·46·33
23·0	1·47·59	1·47·05	1·46·62	1·46·05					1·45·51	1·45·99	1·45·88	1·46·26
28·0	1·47·59	1·46·98	1·46·62	1·46·09					1·45·57	1·46·20	1·45·88	1·46·26
33·0	1·47·45	1·46·73	1·46·62	1·45·93	1·46·21	1·45·92	1·45·97	1·45·90	1·45·64	1·46·09	1·45·82	1·46·44
38·0	1·47·46	1·46·64	1·46·59	1·45·80					1·45·71	1·46·09	1·45·82	1·46·48
43·0	1·47·52	1·46·64	1·46·42	1·45·88					1·45·78	1·46·16	1·45·88	1·46·44
48·0	1·47·32	1·46·78	1·46·35	1·46·09					1·45·82	1·46·16	1·45·88	1·46·62
53·0	1·47·18	1·46·78	1·46·39	1·45·95					1·45·82	1·46·16	1·45·75	1·46·55
58·0	1·47·11	1·46·59	1·45·95	1·45·60					1·45·85	1·45·81	1·45·75	1·46·65

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′553	17′373	17′064	15′623	13′562	11′501	10′539	10′471	11′038	12′601	13′081	13′219	13′365
5·0	15·691	17·339	16·858	15·628	12·944					12·635	13·219	13·425	13·365
10·0	16·034	17·407	16·721	15·211	13·047					12·669	13·150	13·425	13·287
15·0	16·034	17·544	16·653	15·004	12·876					12·738	12·944	13·425	13·365
20·0	16·309	17·407	16·584	14·936	12·550					12·738	12·944	13·493	13·287
25·0	16·412	17·441	16·378	14·936	12·533					12·876	12·944	13·493	13·425
30·0	16·721	17·407	16·240	14·901	12·533	10·814	10·471	10·814	11·845	12·944	12·944	13·425	13·081
35·0	16·789	17·339	15·966	14·420	12·533					13·013	12·944	13·493	13·081
40·0	16·892	17·339	16·136	14·249	12·533					13·013	13·013	13·425	13·081
45·0	16·996	17·389	16·000	14·249	12·015					12·738	13·081	13·425	13·150
50·0	17·270	17·270	15·794	14·076	11·845					12·463	13·081	13·355	13·287
55·0	17·339	17·201	15·623	13·630	11·673					12·876	13·150	13·389	13·493

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·575	17·565	18·160	18·500	18·650	18·400	17·850	17·510	17·157	17·020	17·000	17·240	17·160
7·0	17·570	17·630	18·195	18·500	18·605					17·000	17·080	17·200	17·170
12·0	17·610	17·860	18·280	18·500	18·600					17·000	17·170	17·200	17·240
17·0	17·610	17·880	18·340	18·500	18·600					16·980	17·200	17·240	17·120
22·0	17·610	17·910	18·360	18·550	18·550					16·940	17·220	17·250	17·120
27·0	17·575	17·930	18·400	18·550	18·500					16·900	17·265	17·250	17·150
32·0	17·610	17·910	18·450	18·482	18·400	18·145	17·650	17·350	17·100	16·890	17·275	17·210	17·100
37·0	17·600	17·920	18·500	18·480	18·400					16·895	17·260	17·180	17·080
42·0	17·610	17·970	18·500	18·465	18·425					16·967	17·220	17·180	17·080
47·0	17·665	18·000	18·500	18·540	18·450					17·095	17·220	17·165	17·000
52·0	17·600	18·025	18·500	18·550	18·450					17·100	17·210	17·100	16·945
57·0	17·555	18·100	18·500	18·550	18·450					17·080	17·250	17·140	16·900
Therm.	81°9	82°6	83°3	85°0	86°0	86°6	86°5	86°6	87°0	87°0	86°8	86°0	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	8·28·30	8·14·40	6·22·40	4·49·70	4·04·90					8·06·90			
8·0	8·35·00	8·06·00	6·18·00	4·49·70	3·45·50					8·12·80			
13·0	8·35·00	7·46·00	6·07·00	4·38·45	3·45·50					8·12·80			
18·0	8·35·00	7·39·20	5·49·70	4·38·45	4·00·00					8·12·80			
23·0	8·35·00	7·32·40	5·42·20	4·38·45	4·00·00					8·19·30			
28·0	8·35·00	7·24·40	5·36·90	4·26·90	4·07·50	4·42·80	5·39·65	6·33·85	7·20·00	8·19·30			
33·0	8·35·00	7·24·40	5·28·60	4·26·90	4·07·50					8·19·30			
38·0	8·35·00	7·10·20	5·28·60	4·26·90	4·11·75								
43·0	8·27·10	7·04·10	5·17·95	4·18·25	4·11·75								
48·0	8·27·10	6·46·20	5·17·95	4·04·90	4·11·75								
53·0	8·23·50	6·39·20	5·04·00	4·04·90	4·11·75								
58·0	8·23·50	6·32·30	4·49·70	4·04·90	4·11·75	5·07·50	6·09·70	6·47·70	8·03·30				
Therm.	83°3	83°0	83°5	84°6	85°4	85°8	86°0	86°5	87°4	87°7			

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′56	16′35	14′88	12′57	10′96	9′76	9′81	10′81	12′11	12′68	12′68	12′90
5·0	16·56	16·19	14.73	12·42					12·16	12·63	12·83	12·78
10·0	16·56	16·04	14·47	12·37					12·11	12·37	12·90	12·63
15·0	16.61	16·04	14·47	12·37					12·16	12·37	12·88	12·57
20·0	16·56	15·92	14·40	12·21					12·31	12·37	12·88	12·42
25·0	16.56	15·71	14·25	11·95					12·37	12·37	12·90	12·37
30·0	16·56	15·56	13·99	11·74	10·28	9·76	10·28	11·38	12·37	12·37	12·90	12·37
35·0	16·56	15·51	13·94	11·69					12·42	12·42	12·90	12·37
40·0	16·56	15·40	13·73	11·59					12·26	12·47	12·90	12·37
45·0	16.56	15·30	13·42	11·38					12·05	12·63	12·90	12·37
50·0	16.56	15·19	13·36	11·27					12·00	12·63	12·90	12·37
55·0	16·50	14·99	12·95	11·22					12·37	12·63	12·90	12·68

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	36·800	37·100	37·480	37·650	37·340	36·800	36·390	36·040	36·000	36·150	36·400	36·370
7·0	36·840	37·120	37·500	37·680					36·000	36·220	36·350	36·350
12·0	36·900	37·190	37·530	37·700					36·000	36·270	36·400	36·420
17·0	37·000	37·230	37·550	37·700					36·000	36·320	36·400	36·490
22·0	37·020	37·250	37·580	37·630					35·980	36·350	36·450	36·500
27·0	37·030	37·290	37·590	37·550					35·900	36·400	36·400	36·500
32·0	37·020	37·300	37·600	37·490	37·100	36·550	36·200	36·090	35·920	36·430	36·430	36·450
37·0	37·050	37·320	37·630	37·430					35·950	36·400	36·400	36·480
42·0	37·040	37·380	37·670	37·400					36·040	36·400	36·400	36·430
47·0	37·000	37·390	37·700	37·400					36·130	36·390	36·380	36·370
52·0	37·000	37·400	37·700	37·420					36·200	36·430	36·400	36·340
57·0	37·050	37·420	37·630	37·400					36·150	36·400	36·350	36·260
Therm.	80°0	81°6	82°0	83°7	84°2	86°0	86°0	86°5	86°0	85°8	85°7	84°1

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′41	1°46′68	1°45′81	1°45′19	1°44′71	1°44′90	1°44′83	1°44′87	1°45′38	1°44′85	1°45′42	1°45′27
8·0	1·46·23	1·46·62	1·45·81	1·44·71					1·45·42	1·45·42	1·45·49	1·45·42
13·0	1·46·31	1·46·48	1·45·54	1·44·82					1·45·45	1·45·64	1·45·42	1·45·63
18·0	1·46·44	1·46·56	1·45·33	1·44·94					1·45·08	1·45·57	1·45·20	1·45·99
23·0	1·46·31	1·46·49	1·45·41	1·44·89					1·44·80	1·45·72	1·45·26	1·46·07
28·0	1·46·34	1·46·29	1·45·70	1·45·16					1·44·79	1·45·72	1·45·26	1·46·21
33·0	1·46·31	1·46·15	1·45·80	1·45·31	1·45·03	1·44·83	1·44·88	1·45·06	1·44·85	1·45·72	1·45·20	1·45·71
38·0	1·46·24	1·45·88	1·45·47	1·45·31					1·44·78	1·45·57	1·45·26	1·45·71
43·0	1·46·24	1·46·19	1·45·44	1·45·45					1·45·21	1·45·50	1·45·20	1·45·42
48·0	1·46·38	1·46·05	1·45·59	1·44·94					1·44·96	1·45·57	1·45·20	1·45·49
53·0	1·46·31	1·45·84	1·45·42	1·44·92					1·44·66	1·45·42	1·45·27	1·45·49
58·0	1·46·53	1·45·67	1·45·11	1·44·74					1·44·79	1·45·35	1·45·30	1·45·69

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·382	15·623	15·691	15·176	13·562	11·845	11·501	11·845	12·394	13·219	13·871	13·906	13·837
5·0	15·211	15·623	15·760	15·004	13·287					13·219	13·871	13·906	13·700
10·0	15·280	15·657	15·657	14·936	13·219					13·253	13·871	13·906	13·768
15·0	15·382	15·760	15·623	14·936	13·219					13·355	13·871	13·974	13·768
20·0	15·558	15·691	15·623	14·936	13·184					13·355	13·871	13·974	13·837
25·0	15·519	15·623	15·691	14·936	12·876					13·459	13·871	13·906	13·837
30·0	15·587	15·519	15·708	14·592	12·601	11·501	11·569	12·188	12·876	13·562	13·906	13·906	13·837
35·0	15·348	15·691	15·623	14·249	12·463					13·630	13·906	13·906	13·630
40·0	15·657	15·657	15·623	14·249	12·205					13·700	13·906	13·906	13·562
45·0	15·623	15·691	15·348	14·249	12·188					13·768	13·906	13·906	13·527
50·0	15·794	15·794	15·280	14·076	12·188					13·837	13·906	13·906	13·493
55·0	16·623	15·828	15·280	13·906	12·015					13·837	13·906	13·837	13·664

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·600	17·980	18·375	18·800	19·010	18·900	18·650	18·090	17·780	17·750	17·620	17·510	17·400
7·0	17·650	17·975	18·320	18·800	19·015					17·650	17·625	17·515	17·430
12·0	17·740	18·035	18·505	18·805	19·000					17·650	17·625	17·515	17·460
17·0	17·660	18·040	18·475	18·850	19·000					17·660	17·620	17·510	17·445
22·0	17·720	18·030	18·470	18·850	19·000					17·650	17·610	17·550	17·430
27·0	17·720	18·085	18·530	18·850	19·000					17·650	17·595	17·550	17·425
32·0	17·690	18·070	18·550	18·900	19·000	18·750	18·400	17·910	17·700	17·660	17·560	17·550	17·455
37·0	17·795	18·120	18·580	18·950	19·000					17·625	17·560	17·545	17·435
42·0	17·870	18·165	18·600	18·950	19·000					17·610	17·565	17·440	17·430
47·0	17·777	18·265	18·650	18·990	18·980					17·610	17·540	17·465	17·430
52·0	17·875	18·300	18·650	19·025	18·900					17·600	17·550	17·450	17·440
57·0	17·970	18·300	18·725	19·050	18·900					17·605	17·555	17·440	17·425
Therm.	83°8	83°8	84°0	84°6	85°5	86°5	87°9	89°0	88°0	87°0	86°8	85°7	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	9·23·80	8·48·70	7·47·00	6·49·30	6·26·00					9·18·90	9·10·95	8·39·70	8·27·70
8·0	9·18·90	8·35·40	7·41·80	6·38·50	6·26·00					9·13·20	9·10·95	8·39·70	8·27·70
13·0	9·18·90	8·35·40	7·35·10	6·33·50	6·26·00					9·13·20	9·10·95	8·35·60	8·27·70
18·0	9·18·90	8·29·90	7·35·10	6·33·50	6·26·00					9·13·20	9·10·95	8·35·60	8·27·70
23·0	9·18·90	8·29·90	7·24·90	6·26·00	6·18·00					9·12·20	9·05·50	8·35·60	8·27·70
28·0	9·18·90	8·26·30	7·19·50	6·26·00	6·18·00	6·36·00		8·45·30	9·21·25	9·12·20	9·05·50	8·35·60	8·27·70
33·0	9·14·00	8·26·30	7·19·50	6·26·00	6·18·00					9·12·20	9·05·50	8·35·60	8·27·70
38·0	9·14·00	8·20·80	7·19·50	6·26·00	6·18·00					9·12·20	9·05·50	8·35·60	8·37·90
43·0	9·07·40	8·20·80	7·07·00	6·26·00	6·13·00					9·12·20	9·01·40	8·35·60	9·03·30
48·0	9·07·40	8·14·30	7·07·00	6·26·00	6·13·00					9·16·50	9·01·40	8·31·50	9·15·80
53·0	8·47·40	8·08·80	6·49·30	6·26·00	6·13·00					9·16·50	9·01·40	8·31·50	9·23·50
58·0	8·43·70	8·03·90	6·49·30	6·26·00	6·13·00	7·01·30	8·31·00	9·10·00	9·18·90	9·16·50	9·01·40	8·27·70	9·23·50
Therm.	85°9	84°8	84°6	84°5	85°0	86°0	87°0	88°7	88°2	87°2	86°5	86°4	86°5

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16′56	16′50	15′87	14′09	12′37	11′90	12′37	13′00	13′88	14′09	14′47	14′47
5·0	16·56	16·50	15·56	13·94					13·88	14·20	14·47	14·47
10·0	15·56	16·50	15·51	13·94					13·94	14·47	14·47	14·47
15·0	16·56	16·45	15·35	13·88					13·94	14·47	14·47	14·47
20·0	16·56	16·40	15·19	13·62					13·94	14·47	14·47	14·47
25·0	16·55	16·36	15·09	13·42					13·94	14·47	14·47	14·47
30·0	16·56	16·30	15·25	13·16		12·37	12·78	13·42	13·88	14·47	14·47	14·47
35·0	16·56	16·19	14·99	12·90					13·94	14·47	14·47	14·47
40·0	16·56	16·04	14·78	12·90					13·94	14·47	14·47	14·47
45·0	16·56	16·04	14·62	12·83					13·94	14·47	14·47	14·47
50·0	16·56	16·04	14·47	12·57					13·99	14·47	14·47	14·47
55·0	16·56	15·92	14·35	12·42					13·94	14·47	14·47	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	36·100	36·580	37·050	37·280	36·950	36·350	36·110	36·200	36·100	35·900	35·800	36·000
7·0	36·130	36·630	37·070	37·300					36·100	35·900	35·830	36·000
12·0	36·200	36·710	37·100	37·350					36·100	35·900	35·800	36·000
17·0	36·200	36·800	37·100	37·300					36·080	35·900	35·840	36·080
22·0	36·240	36·830	37·100	37·280					36·090	35·870	35·830	36·080
27·0	36·260	36·870	37·100	37·250					36·070	35·820	35·840	36·090
32·0	36·290	36·890	37·130	37·200	36·800	36·150	36·150	36·200	36·050	35·800	35·880	36·020
37·0	36·300	36·900	37·150	37·170					36·020	35·800	35·900	36·000
42·0	36·340	36·930	37·180	37·120					36·030	35·800	35·900	35·980
47·0	36·390	36·970	37·200	37·080					36·000	35·820	35·920	35·940
52·0	36·430	36·990	37·240	37·000					35·970	35·830	35·950	35·920
57·0	36·500	36·020	37·290	37·970					35·930	35·850	35·930	35·900
Therm.	80°4	81°6	81°8	82°1	83°8	85°8	86°6	84°0	83°6	83°5	82°2	81°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°48′69	1°48′76	1°48′68	1°48′06	1°47′93	1°48′73	1°47′79	1°48′18	1°48′87	1°49′28	1°49′12	1°48′48
8·0	1·48·69	1·48·83	1·48·50	1·47·93					1·48·87	1·49·37	1·49·98	1·48·34
13·0	1·48·73	1·48·78	1·48·72	1·47·86					1·48·90	1·49·37	1·48·84	1·48·55
18·0	1·48·97	1·48·69	1·48·86	1·48·15					1·49·00	1·49·37	1·48·75	1·48·55
23·0	1·48·91	1·48·69	1·48·01	1·48·39					1·49·14	1·49·37	1·48·75	1·48·77
28·0	1·48·83	1·48·90	1·48·16	1·48·37					1·49·25	1·49·37	1·48·69	1·49·05
33·0	1·48·73	1·48·92	1·48·81	1·48·25	1·48·01	1·48·58	1·47·98	1·48·52	1·49·35	1·49·41	1·48·55	1·49·20
38·0	1·49·90	1·48·83	1·48·51	1·48·25					1·59·42	1·49·56	1·48·55	1·48·99
43·0	1·48·73	1·48·83	1·48·61	1·48·15					1·49·64	1·49·41	1·48·55	1·49·06
48·0	1·48·76	1·48·56	1·48·74	1·48·13					1·49·71	1·49·41	1·48·55	1·49·03
53·0	1·48·87	1·48·63	1·48·58	1·48·13					1·49·78	1·49·41	1·48·55	1·48·99
58·0	1·48·90	1·48·63	1·48·41	1·48·10					1·49·63	1·49·41	1·48·48	1·49·16

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST APRIL, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′926	16′960	15′828	14′249	12′537	11′157	10′744	11′569	12′084	13′081	14′249	15′074	17′133
5·0	16·996	16·926	15·623	14·249	12·601					13·115	14·283	15·348	16·584
10·0	17·030	16·892	15·553	14·249	12·360					13·287	14·249	15·897	16·378
15·0	17·064	16·755	15·348	13·974	12·188					13·219	14·008	15·623	16·172
20·0	17·201	16·687	15·142	14·145	12·188					13·562	14·249	15·623	15·897
25·0	17·133	16·721	15·074	13·906	12·222					13·906	14·317	16·034	15·657
30·0	17·167	16·653	14·936	13·596	11·879	10·299	11·068	11·845	12·703	14·042	14·249	16·378	15·416
35·0	17·133	16·653	14·936	13·287	11·879					14·111	14·249	16·584	15·348
40·0	17·064	16·515	14·936	13·219	11·327					14·213	14·317	16·721	16·348
45·0	16·996	16·395	14·901	13·219	11·157					14·592	14·592	16·789	15·485
50·0	16·996	16·102	14·592	12·978	11·157					14·523	15·074	16·721	15·553
55·0	16·996	15·966	14·351	12·772	11·157					14·249	15·004	17·235	15·623

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	16·730	17·010	17·440	17·800	17·900	17·800	17·605	17·420	17·440	17·162	15·720	13·820	13·180
7·0	16·740	17·080	17·530	17·810	17·975					17·180	15·560	13·655	13·330
12·0	16·685	17·145	17·590	17·785	17·990					17·110	15·440	13·495	13·440
17·0	16·690	17·150	17·550	17·790	17·950					17·050	15·340	13·345	13·675
22·0	16·670	17·210	17·570	17·800	17·860					16·760	15·160	13·210	13·850
27·0	16·670	17·305	17·620	17·800	17·850					16·610	15·050	13·095	13·580
32·0	16·700	17·380	17·650	17·817	18·200	17·990	17·525	17·280	17·210	16·610	14·860	13·030	13·880
37·0	16·730	17·435	17·690	17·850	18·260					16·460	14·855	13·050	13·895
42·0	16·765	17·450	17·750	17·900	18·350					16·215	14·810	13·075	13·895
47·0	16·820	17·470	17·750	17·940	18·235					16·465	14·585	13·190	13·870
52·0	16·895	17·380	17·760	17·950	17·810					16·000	14·250	13·170	13·860
57·0	16·915	17·370	17·800	17·900	17·800					15·720	14·010	13·110	13·845
Therm.	82°8	83°0	83°6	84°0	85°0	85°0	86°0	86°6	87°0	87°3	87°2	86°6	85°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	10·49·00	10·13·30	9·01·50	8·13·50	7·36·25					11·04·45	11·27·85	11·46·50	11·35·30
8·0	10·49·00	10·06·20	9·01·50	8·13·50	7·27·50					11·49·25	11·27·85	12·18·00	11·23·90
13·0	10·49·00	9·48·90	8·39·00	8·07·25	7·30·50					11·04·00	11·17·35	12·05·70	11·23·90
18·0	10·45·80	9·48·90	8·39·00	8·07·25	7·30·50					11·11·05	11·16·05	11·45·40	11·14·10
23·0	10·39·40	9·42·50	8·39·00	7·48·00	7·30·50					11·27·10	11·23·15	12·05·80	11·05·30
28·0	10·34·60	9·42·50	8·33·90	7·48·00	7·37·70	8·26·50	9·45·70	10·33·45	11·04·45	11·27·10	11·19·05	12·17·50	11·05·30
33·0	10·34·60	9·29·00	8·33·90	7·48·00	7·24·50					11·24·70	11·26·20	12·17·50	11·05·30
38·0	10·29·10	9·23·60	8·26·80	7·46·35	7·24·50					11·16·80	11·26·20	12·19·10	11·05·30
43·0	10·25·30	9·19·00	8·26·80	7·46·35	7·31·65					11·31·90	11·26·20	12·16·70	11·12·90
48·0	10·25·30	9·14·30	8·26·80	7·34·00	7·43·30					11·31·90	11·47·10	12·10·70	11·19·10
53·0	10·18·50	9·14·30	8·20·50	7·34·00	7·01·80					11·24·05	12·01·50	12·10·70	11·19·10
58·0	10·13·30	9·14·30	8·20·50	7·34·80	7·01·80	9·15·10	10·19·50	10·33·45	11·04·45	11·18·50	11·46·50	12·10·70	11·19·10
Therm.	84°4	83°9	83°9	84°0	84°5	85°0	85°5	86°2	87°2	87°8	87°7	87°0	86°4

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′28	16′04	14′78	13′21	11′59	11′07	12′11	12′78	13′62	14′73	15′51	17′53
5·0	17·34	16·04	14·62	13·05					13·68	14·73	16·04	17·08
10·0	17·34	15·97	14·47	12·90					13·88	14·67	16·04	16·76
15·0	17·08	15·71	14·40	12·83					13·94	14·52	16·04	16·56
20·0	17·08	15·51	14·25	12·42					14·35	14·78	16·04	16·56
25·0	17·08	15·51	14·09	12·37					14·40	14·78	16·56	16·09
30·0	17·02	15·45	13·94	12·37		11·85	12·47	13·42	14·62	14·73	16·82	16·04
35·0	16·92	15·19	13·94	12·16					14·67	14·88	17·08	16·04
40·0	16·82	15·14	13·94	11·90					14·93	14·99	17·08	15·92
45·0	16·56	14·99	13·62	11·69					14·99	15·04	17·34	16·04
50·0	16·56	14·99	13·47	11·53					14·99	15·19	17·43	16·04
55·0	16·45	14·99	13·31	11·79					14·83	15·51	17·60	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	35·750	36·150	36·400	36·450	36·790	35·800	35·650	35·800	35·600	34·100	32·070	31·200
7·0	35·830	36·200	36·410	36·400					35·650	33·900	31·780	31·300
12·0	35·900	36·300	36·390	36·500					35·560	33·760	31·560	31·550
17·0	35·900	36·280	36·330	36·550					35·490	33·620	31·400	31·780
22·0	35·980	36·280	36·370	36·480					35·340	33·410	31·230	31·980
27·0	36·030	36·290	36·390	36·400					35·170	33·370	31·100	32·000
32·0	36·120	36·340	36·340	36·490	36·400	35·800	35·500	35·580	35·000	33·220	31·100	32·000
37·0	36·130	36·360	36·390	36·580					34·890	33·100	31·090	32·000
42·0	36·200	36·400	36·440	36·670					34·750	33·070	31·100	32·040
47·0	36·200	36·400	36·450	36·790					34·540	32·880	31·200	32·000
52·0	36·120	36·400	36·500	36·750					34·400	32·600	31·200	32·020
57·0	36·090	36·400	36·470	36·700					34·260	32·270	31·170	32·000
Therm.	80°3	81°5	82°0	82°4	83°8	84°6	86°0	86°4	86°0	85°8	84°3	84°0.

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′87	1°46′45	1°46′02	1°45′46	1°45′66	1°45′64	1°46′12	1°45′86	1°46′00	1°46′16	1°46′70	1°47′46
8·0	1·46·84	1·46·24	1·46·02	1·45·67					1·46·03	1·46·19	1·46·69	1·47·20
13·0	1·46·94	1·46·45	1·46·16	1·45·57					1·46·07	1·46·31	1·47·24	1·47·28
18·0	1·46·81	1·46·40	1·46·17	1·45·40					1·46·00	1·46·35	1·46·96	1·47·36
23·0	1·46·74	1·46·48	1·46·64	1·45·54					1·45·76	1·46·59	1·46·96	1·47·24
28·0	1·46·91	1·46·41	1·46·54	1·45·72					1·45·97	1·46·52	1·47·37	1·47·00
33·0	1·46·84	1·46·28	1·46·23	1·45·66	1·45·80	1·45·45	1·45·92	1·45·91	1·45·95	1·46·31	1·47·57	1·46·76
38·0	1·46·84	1·46·42	1·46·07	1·45·81					1·46·02	1·46·59	1·47·48	1·46·83
43·0	1·46·71	1·46·42	1·46·00	1·45·55					1·46·12	1·46·23	1·47·34	1·46·83
48·0	1·46·73	1·46·38	1·46·00	1·45·39					1·46·36	1·46·36	1·47·12	1·46·97
53·0	1·46·43	1·46·07	1·45·90	1·45·38					1·46 29	1·46·84	1·47·05	1·47·03
58·0	1·46·44	1·45·98	1·45·69	1·45·52					1·46·16	1·46·77	1·47·59	1·47·10

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′721	17′578	16′653	15′211	13′562	12′119	11′501	12′463	13′355	14′249	14′936	14′936	14′454
5·0	16·789	17·544	16·618	15·108	13·287					14·249	14·936	14·936	14·386
10·0	16·996	17·475	16·515	14·936	13·219					14·249	14·936	14·798	14·386
15·0	17·201	17·373	16·309	14·592	12·944					14·317	15·004	14·762	14·350
20·0	17·304	17·339	16·102	14·592	12·876					14·454	15·074	14·660	14·350
25·0	17·339	17·339	15·966	14·592	12·635					14·488	15·142	14·660	14·316
30·0	17·441	17·270	15·966	14·420	12·635	11·913	12·913	13·150	13·837	14·523	15·142	14·592	14·179
35·0	17·475	17·201	15·897	14·042	12·533					14·592	15·074	14·592	14·111
40·0	17·544	17·064	15·760	13·940	12·533					14·660	15·004	14·592	14·042
45·0	17·612	16·926	15·623	13·940	12·533					14·660	15·074	14·557	14·042
50·0	17·544	16·789	15·460	13·906	12·222					14·728	15·038	14·523	13·940
55·0	17·544	16·653	15·280	13·630	12·015					14·867	15·004	14·488	13·906

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	16·720	16·740	17·130	17·425	17·350	17·350	17·375	17·150	17·050	16·910	16·800	16·710	16·650
7·0	16·730	16·745	17·180	17·450	17·350					16·990	16·800	16·710	16·680
12·0	16·715	16·755	17·220	17·450	17·350					16·900	16·795	16·705	16·700
17·0	16·650	16·810	17·250	17·450	17·350					16·870	16·790	16·710	16·610
22·0	16·675	16·820	17·250	17·475	17·350					16·830	16·770	16·710	16·600
27·0	16·695	16·885	17·260	17·400	17·350					16·880	16·740	16·700	16·570
32·0	16·740	16·900	17·260	17·490	17·350	17·400	17·200	17·020	16·990	16·850	16·725	16·690	16·560
37·0	16·715	16·910	17·260	17·475	17·350					16·850	16·725	16·660	16·550
42·0	16·700	16·940	17·290	17·450	17·350					16·850	16·725	16·660	16·540
47·0	16·175	16·990	17·340	17·450	17·350					16·930	16·725	16·670	16·550
52·0	16·700	17·030	17·350	17·415	17·350					16·820	16·710	16·660	16·540
57·0	16·700	17·060	17·400	17·355	17·350					16·810	16·710	16·680	16·550
Therm.	84°0	84°0	84°4	85°0	86°0	86°5	87°0	87°3	87°7	87°9	87°8	87°3	86°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h		15h		16h		17h		18h		19h	20h	21h	22h	23h		Noon.		1h		2h	
	t	d	t	d	t	d	t	d	t	d	t d	t d	t d	t d	t	d	t	d	t	d	t	d
M. S.																						
3·0	13·07·00		12·01·00		10·39·30		10·06·94		9·33·60						11·30·15		12·11·10		12·08·20		11·41·30	
8·0	12·48·90		11·43·70		10·33·00		9·49·25		9·33·60						11·36·50		12·13·00		12·01·90		11·41·30	
13·0	12·48·90		11·36·70		10·33·00		9·49·25		9·27·25						11·36·50		12·16·50		12·01·90		12·06·20	
18·0	12·48·90		11·29·40		10·24·80		9·49·25		9·27·25						11·42·15		12·16·50		12·01·90		12·06·20	
23·0	12·48·90		11·23·80		10·20·90		9·49·25		9·27·25						11·42·15		12·16·50		12·01·90		12·06·20	
28·0	12·40·10		11·18·80		10·20·90		9·49·25		9·27·25		9·27·00	9·42·50	10·40·50	11·17·15	11·44·05		12·16·50		12·01·90		12·06·20	
33·0	12·35·30		11·13·40		10·20·90		9·39·90		9·27·25						11·44·05		12·16·50		12·01·90		12·06·20	
38·0	12·35·30		11·08·30		10·20·90		9·39·90		9·27·25						11·48·50		12·16·50		12·01·90		12·06·20	
43·0	12·27·00		11·08·30		10·16·60		9·39·90		9·27·25						12·01·70		12·16·50		12·01·90		12·06·20	
48·0	12·20·20		10·49·50		10·16·60		9·39·90		9·27·25						12·07·70		12·08·20		11·46·70		12·06·20	
53·0	12·14·10		10·44·30		10·06·95		9·39·90		9·23·80						12·09·75		12·08·20		11·41·30		12·06·20	
58·0	12·10·00		10·39·30		10·06·95		9·33·60		9·23·80		9·35·05	10·18·40	10·47·10	11·30·15	12·09·75		12·08·20		11·41·30		12·06·20	
Therm.	86°4		85°4		84°0		85°2		85°7		86°2	87°0	87°8	87°8	88°6		88°7		88°5		87°3	

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	18′13	17′08	15′51	13′99	12′52	12′37	13′00	13′94	14′88	15′51	15′51	14′99
5·0	18·13	17·08	15·51	13·94					14·93	15·51	15·51	14·99
10·0	17·96	16·87	15·45	13·88					14·99	15·51	15·51	14·99
15·0	17·86	16·82	15·30	13·62					14·99	15·61	15·45	14·99
20·0	17·75	16·56	15·19	13·42					15·04	15·66	15·45	14·99
25·0	17·65	16·56	14·99	13·42					15·19	15·87	15·19	14·99
30·0	17·60	16·45	14·88	13·05	12·37	12·37	13·68	14·47	15·25	15·92	15·19	14·99
35·0	17·53	16·30	14·73	12·90					15·25	15·82	15·19	14·78
40·0	17·48	16·30	14·62	12·90					15·30	15·71	15·19	14·62
45·0	17·34	16·04	14·47	12·90					15·30	15·51	15·04	14·47
50·0	17·34	15·92	14·40	12·83					15·51	15·51	14·99	14·47
55·0	17·08	15·61	14·20	12·57					15·51	15·51	14·99	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M s.												
2·0	35·490	35·800	36·000	35·800	35·680	35·600	35·400	35·200	35·200	35·140	35·050	35·100
7·0	35·500	35·870	36·000	35·800					35·210	35·130	35·100	35·080
12·0	35·500	35·900	36·000	35·750					35·200	35·140	35·090	35·070
17·0	35·500	35·900	36·000	35·780					35·190	35·100	35·100	35·080
22·0	35·550	35·900	36·000	35·790					35·180	35·100	35·090	35·090
27·0	35·600	35·900	36·000	35·700					35·200	35·100	35·100	35·100
32·0	35·620	35·900	35·970	35·640	35·650	35·500	35·290	35·200	35·200	35·100	35·100	35·090
37·0	35·650	35·900	35·900	35·550					35·200	35·080	35·100	35·090
42·0	35·680	35·900	35·880	35·650					35·190	35·050	35·100	35·090
47·0	35·750	35·940	35·880	35·600					35·170	35·100	35·100	35·050
52·0	35·780	35·960	35·880	35·630					35·130	35·100	35·100	35·090
57·0	35·790	36·000	35·820	35·700					35·120	35·100	35.100	35·090
Therm.	80°4	81°8	52°0	83°7	84°0	85°6	86°0	86°4	86°1	86°0	86°0	85°5

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46′19	1°45′98	1°45′68	1°47′57	1°45′38	1°44′85	1°45′38	1°45′55	1°45′88	1°46′13	1°46′28	1°46′08
8·0	1·46·15	1·46·09	1·45·73	1·45·35					1·45·88	1·46·13	1·46·28	1·46·16
13·0	1·46·09	1·46·28	1·45·84	1·45·42					1·45·88	1·46·13	1·46·14	1·46·02
18·0	1·46·13	1·46·22	1·45·78	1·45·43					1·45·80	1·46·05	1·46·10	1·46·12
23·0	1·46·10	1·46·01	1·45·93	1·45·66					1·45·79	1·46·26	1·46·00	1·46·12
28·0	1·46·24	1·45·88	1·45·93	1·45·13					1·45·83	1·46·33	1·46·00	1·46·09
33·0	1·46·17	1·45·86	1·45·90	1·45·55	1·44·98	1·44·98	1·45·64	1·45·61	1·45·86	1·46·23	1·46·07	1·45·95
38·0	1·46·10	1·45·81	1·45·52	1·45·45					1·45·93	1·46·26	1·46·07	1·45·88
43·0	1·45·96	1·45·81	1·45·57	1·45·45					1·46·00	1·46·34	1·46·00	1·45·95
48·0	1·45·97	1·45·67	1·45·57	1·45·60					1·45·85	1·46·41	1·46·04	1·45·95
53·0	1·45·97	1·45·65	1·45·68	1·45·29					1·45·92	1·46·38	1·46·00	1·45·85
58·0	1·45·84	1·45·61	1·45·40	1·45·08					1·46·06	1·46·34	1·45·97	1·45·82

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	15′416	14′454	12′876	11′845	11′501	11′501	11′810	12′944	13′837	13′906	14′111	14′042
5·0	15·280	15·348	14·249	12·910	11·501					13·906	13·906	14·111	14·042
10·0	15·416	15·348	14·249	12·876	11·639					13·906	13·974	14·042	14·008
15·0	15·416	15·348	14·111	12·876	11·776					13·906	13·974	13·974	13·906
20·0	15·485	15·280	13·974	12·806	11·569					13·974	13·974	13·974	13·906
25·0	15·553	15·211	13·768	12·601	11·501					13·974	13·974	13·906	13·837
30·0	15·485	15·142	13·562	12·326	11·501	11·501	11·845	12·256	13·562	13·974	13·974	13·906	13·802
35·0	15·485	15·074	13·562	12·188	11·501					13·974	13·906	13·906	13·768
40·0	15·485	14·970	13·562	12·188	11·225					13·974	13·906	13·906	13·734
45·0	15·416	14·901	13·562	12·015	10·985					13·974	13·906	13·940	13·700
50·0	15·416	14·832	13·287	11·915	11·501					13·906	14·179	13·940	13·562
55·0	15·416	14·660	13·150	11·845	11·501					13·906	14·179	13·940	13·493

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·540	17·720	17·960	18·160	18·200	18·100	17·995	17·980	17·770	17·700	17·590	17·380	17·300
7·0	17·550	17·760	18·020	18·160	18·200					17·705	17·560	17·360	17·300
12·0	17·475	17·830	18·080	18·150	18·200					17·680	17·540	17·370	17·300
17·0	17·495	17·810	18·070	18·200	18·150					17·680	17·540	17·380	17·270
22·0	17·525	17·790	18·090	18·250	18·150					17·660	17·505	17·370	17·210
27·0	17·490	17·810	18·100	18·250	18·150					17·650	17·490	17·350	17·220
32·0	17·580	17·845	18·100	18·250	18·160	18·050	17·900	18·020	17·730	17·650	17·490	17·270	17·230
37·0	17·600	17·890	18·100	18·250	18·150					17·630	17·870	17·310	17·530
42·0	17·630	17·900	18·100	18·210	18·150					17·630	17·460	17·310	17·230
47·0	17·610	17·930	18·100	18·210	18·150					17·625	17·430	17·300	17·260
52·0	17·665	17·955	18·140	18·215	18·110					17·625	17·400	17·300	17·255
57·0	17·660	17·960	18·150	18·210	18·100					17·600	17·360	17·295	17·260
Therm.	84°0	84°7	85°8	87°0	87°7	88°0	88°0	88°0	88°2	87°9	87°8	87°1	86°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	11·13·40	10·19·40	9·11·70	8·33·40	8·17·90					10·39·40	11·01·15	10·48·30	11·00·70
8·0	11·13·40	10·13·60	9·05·30	8·33·40	8·23·00					10·42·90	11·06·20	10·48·30	11·00·70
13·0	11·04·50	10·06·20	9·05·30	8·26·50	8·23·00					10·42·90	11·06·20	10·48·30	11·00·70
18·0	11·04·50	9·49·10	8·49·20	8·26·50	8·23·95					10·45·75	11·01·90	10·48·30	10·41·80
23·0	11·04·50	9·44·20	8·49·20	8·17·90	8·29·95					10·45·75	10·48·30	10·48·30	10·41·80
28·0	10·47·60	9·38·80	8·49·20	8·17·90	8·29·75	9·02·00	9·33·90	10·12·45	10·32·50	10·45·75	10·48·30	10·48·30	10·41·80
33·0	10·47·60	9·33·40	8·41·40	8·17·90	8·35·75					10·45·75	10·48·30	10·48·30	10·34·20
38·0	10·42·60	9·27·60	8·41·40	8·17·90	8·35·75					10·47·55	10·48·30	11·00·70	10·34·20
43·0	10·42·60	9·27·60	8·41·40	8·17·90	8·35·75					10·47·55	10·48·30	11·00·70	10·34·20
48·0	10·35·00	9·20·50	8·41·40	8·17·90	8·35·60					10·47·55	10·48·30	11·00·70	10·34·20
53·0	10·35·00	9·16·30	8·41·40	8·17·90	8·42·60					11·01·15	10·48·30	11·00·70	10·34·20
58·0	10·25·70	9·16·30	8·41·40	8·17·90	8·42·60	9·13·60	9·47·30	10·19·60	10·39·40	11·01·15	10·48·30	11·00·70	10·34·20
Therm.	84°9	84°8	85°4	86°0	86°6	85°9	87°7	88°0	88°5	88°7	88°7	88°5	87°9

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15′97	14′99	13′78	12′37	12′00	12′11	12′47	13′42	14′47	14′47	14′57	14′47
5·0	15·97	14·99	13·68	12·37					14·47	14·47	14·57	14·47
10·0	16·04	14·98	13·42	12·37					14·47	14·61	14·47	14·47
15·0	15·82	14·62	13·42	12·26					14·47	14·61	14·47	14·47
20·0	15·77	14·47	13·42	12·21					14·47	14·61	14·47	14·47
25·0	15·66	14·47	13·26	12·00					14·47	14·52	14·47	14·40
30·0	15·51	14·30	12·90	12·11		12·37	13·16	14·04	14·47	14·62	14·47	14·35
35·0	15·51	14·09	12·73	12·05					14·47	14·62	14·47	14·30
40·0	15·51	14·14	12·63	12·05					14·47	14·47	14·47	14·20
45·0	15·51	13·94	12·63	12·00					14·47	14·57	14·47	14·09
50·0	15·30	13·94	12·47	12·00					14·47	14·62	14·47	14·14
55·0	14·99	13·88	12·37	12·00					14·47	14·57	14·47	13·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	36·140	36·200	36·320	36·300	36·270	36·050	36·100	35·900	35·800	35·700	35·490	35·430
7·0	36·150	36·200	36·300	36·300					35·800	35·680	35·480	35·440
12·0	36·130	36·270	36·340	36·300					35·780	35·680	35·500	35·450
17·0	36·130	36·290	36·350	36·300					35·800	35·690	35·500	35·490
22·0	36·120	36·280	36·360	36·310					35·780	35·630	35·500	35·500
27·0	36·140	36·290	36·340	36·300					35·800	35·650	35·470	35·500
32·0	36·150	36·290	36·350	36·300	36·100	36·050	36·200	35·900	35·800	35·650	35·450	35·500
37·0	36·160	36·290	36·340	36·310					35·800	35·620	35·430	35·500
42·0	36·140	36·290	36·360	36·300					35·780	35·600	35·400	35·500
47·0	36·150	36·300	36·360	36·300					35·760	35·530	35·400	35·530
52·0	36·180	36·310	36·320	36·270					35·740	35·500	35·380	35·590
57·0	36·590	36·310	36·320	36·260					35·740	35·500	35·400	35·580
Therm.	82°0	82°3	84°0	85°7	86°0	87°0	87°6	87°6	86°4	86°3	86°0	85°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′76	1°46′22	1°45′66	1°45′92	1°45′72	1°45′50	1°45′45	1°45′86	1°45′61	1°45′68	1°46′60	1°46′82
8·0	1·46·69	1·46·02	1·45·83	1·45·72					1·45·68	1·45·97	1·46·60	1·46·82
13·0	1·46·69	1·46·02	1·45·80	1·45·86					1·45·68	1·46·08	1·47·67	1·46·64
18·0	1·46·69	1·46·02	1·45·80	1·46·00					1·45·68	1·46·18	1·46·60	1·46·54
23·0	1·46·62	1·45·88	1·45·85	1·45·79					1·45·60	1·46·18	1·46·69	1·46·69
28·0	1·46·55	1·45·68	1·45·67	1·45·72					1·45·60	1·46·03	1·46·69	1·46·62
33·0	1·46·62	1·45·76	1·45·54	1·45·72	1·45·86	1·45·78	1·45·47	1·46·05	1·45·60	1·45·88	1·46·69	1·46·58
38·0	1·46·55	1·46·05	1·45·54	1·45·72					1·45·60	1·45·82	1·46·69	1·46·55
43·0	1·46·45	1·46·19	1·45·54	1·45·45					1·45·60	1·45·97	1·46·72	1·46·51
48·0	1·46·38	1·46·34	1·45·52	1·45·21					1·45·60	1·46·11	1·46·72	1·46·48
53·0	1·46·46	1·46·07	1·45·70	1·45·72					1·45·68	1·46·52	1·46·72	1·46·34
58·0	1·46·29	1·45·93	1·45·78	1·45·72					1·45·68	1·46·67	1·46·72	1·46·41

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′828	16′584	16′309	14′901	13′253	12′876	12′876	13′802	14′867	15′280	15′623	15′348	14′626
5·0	15·966	16·584	16·309	14·386	13·184					15·280	15·623	15·142	14·592
10·0	16·034	16·584	16·102	14·249	12·876					15·280	15·623	15·142	14·592
15·0	16·172	16·584	15·931	14·249	12·876					15·348	15·623	15·108	14·454
20·0	16·309	16·515	15·760	14·249	12·876					15·348	15·623	15·074	14·317
25·0	16·309	16·515	15·587	14·179	12·876					15·450	15·691	15·074	14·179
30·0	16·343	16·515	15·348	13·906	12·876	12·876	13·047	14·317	15·074	15·485	15·623	15·004	14·145
35·0	16·343	16·447	15·125	13·734	12·876					15·485	15·623	14·936	13·974
40·0	16·378	16·412	15·108	13·664	12·876					15·485	15·623	14·936	13·974
45·0	16·447	16·378	14·970	13·596	12·876					15·553	15·623	14·728	13·974
50·0	16·515	16·378	14·970	13·562	12·876					15·623	15·553	14·728	13·940
55·0	16·584	16·378	14·970	13·321	12·876					15·623	15·416	14·660	14·042

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·950	17·970	18·170	18·340	18·250	18·150	18·000	17·700	17·382	17·410	17·325	17·010	16·760
7·0	17·960	17·990	18·150	18·350	18·250					17·430	17·325	17·010	16·750
12·0	17·945	18·000	18·150	18·350	18·200					17·445	17·300	17·010	16·750
17·0	17·930	18·010	18·150	18·350	18·200					17·450	17·260	17·010	16·745
22·0	17·930	18·040	18·120	18·350	18·200					17·450	17·210	17·010	16·740
27·0	17·910	18·000	18·180	18·350	18·200					17·440	17·200	17·000	16·710
32·0	17·980	18·050	18·200	18·400	18·205	18·080	17·900	17·630	17·400	17·420	17·180	16·990	16·720
37·0	17·990	18·095	18·200	18·375	18·200					17·410	17·150	16·950	16·720
42·0	17·985	18·130	18·200	18·355	18·200					17·400	17·120	16·900	16·745
47·0	17·940	18·190	18·260	18·320	18·200					17·400	17·080	16·860	16·750
52·0	17·925	18·200	18·300	18·300	18·200					17·360	17·060	16·860	16·760
57·0	17·885	18·200	18·300	18·250	18·160					17·350	17·040	16·770	16·790
Therm.	82°9	83°1	84°0	85°3	86°5	87°0	87°0	87°4	87°6	87°5	87°0	86°0	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time	14h	15h	16h	17h	18	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	10·28·30	10·02·30	8·43·30	7·20·50	7·15·50					9·46·80	10·07·75	9·31·60	9·23·10
8·0	10·28·30	10·02·30	8·36·60	7·20·50	7·15·50					9·46·80	10·07·75	9·28·20	9·32·90
13·0	10·28·30	9·45·60	8·29·70	7·14·00	7·15·50					9·49·60	10·07·75	9·28·20	9·32·90
18·0	10·28·30	9·41·30	8·24·30	7·14·00	7·20·00					9·49·60	9·49·00	9·28·20	9·32·90
23·0	10·28·30	9·41·30	8·19·50	7·14·00	7·24·15					10·04·30	9·49·00	9·23·10	9·32·90
28·0	10·28·30	9·33·50	8·11·10	7·08·10	7·24·15	8·13·00	8·44·25	9·24·70	9·43·90	10·04·30	9·43·30	9·23·10	9·32·90
33·0	10·21·30	9·27·40	7·49·40	7·08·10	7·29·60					10·04·30	9·44·55	9·23·10	9·32·90
38·0	10·21·30	9·19·80	7·49·40	7·08·10	7·35·00					10·04·30	9·44·55	9·23·10	9·32·90
43·0	10·21·30	9·15·40	7·49·40	7·15·50	7·39·10					10·04·30	9·44·55	9·23·10	9·32·90
48·0	10·15·10	9·06·70	7·34·20	7·15·50	7·39·10					10·07·75	9·44·55	9·23·10	9·32·90
53·0	10·11·50	9·00·40	7·28·90	7·15·50	8·02·00					10·07·75	9·38·50	9·28·40	9·32·90
58·0	10·11·50	8·43·30	7·28·90	7·15·50	8·02·00	8·22·35	9·24·70	9·40·65	9·43·90	10·07·75	9·38·50	9·23·10	9·32·90
Therm.	84°0	83°7	83°8	84°5	85°8	86°1	86°6	87°2	87°8	88°2	88°2	87°3	86°2

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′13	16′92	15′45	13′94	13′42	13′68	14′57	15′51	15′87	16′24	16′04	15′25
5·0	17·13	16·76	15·30	13·88					15·92	16·24	15·97	15·19
10·0	17·23	16·66	14·99	13·68					15·92	16·24	15·77	15·09
15·0	17·23	16·56	14·99	13·57					15·97	16·30	15·71	14·99
20·0	17·23	16·50	14·88	13·52					15·97	16·24	15·51	14·99
25·0	17·18	16·35	14·67	13·42					16·04	16·19	15·51	14·99
30·0	17·18	16·09	14·47	13·42	13·42	13·94	14·99	15·61	16·04	16·19	15·51	14·93
35·0	17·08	16·04	14·47	13·42					16·04	16·24	15·51	14·67
40·0	17·08	15·82	14·40	13·42					16·04	16·24	15·51	14·52
45·0	17·08	15·56	14·25	13·42					16·09	16·24	15·51	14·47
50·0	17·08	15·51	14·09	13·42					16·14	16·09	15·51	14·47
55·0	17·02	15·51	13·99	13·42					16·19	16·04	15·40	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	35·750	35·900	35·890	35·900	35·670	35·550	35·200	35·000	35·130	35·130	34·870	34·700
7·0	35·760	35·830	35·900	35·900					35·170	35·150	34·850	34·660
12·0	35·790	35·800	35·910	35·890					35·200	35·120	34·840	34·670
17·0	35·800	35·790	35·920	35·790					35·230	35·100	34·850	34·650
22·0	35·780	35·790	35·940	35·750					35·200	35·080	34·820	34·630
27·0	35·800	35·740	35·940	35·790					35·250	35·040	34·830	34·680
32·0	35·800	35·760	35·930	35·750	35·600	35 360	35·180	35·040	35·240	35·050	34·800	34·700
37·0	35·860	35·800	35·900	35·700					35·220	35·000	34·800	34·720
42·0	35·880	35·830	35·900	35·700					35·190	34·940	34·780	34·750
47·0	35·900	35·850	35·940	35·650					35·150	34·950	34·750	34·790
52·0	35·900	35·870	36·000	35·650					35·160	34·870	34·700	34·820
57·0	35·900	35·880	35·900	35·650					35·140	34·840	34·700	34·850
Therm.	80°2	81°6	82°1	83°7	85°6	86°6	87°6	87°6	86°4	85°8	85°7	84°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′92	1°47′65	1°47′10	1°46′46	1°47′10	1°46′53	1°46′72	1°46′78	1°46′91	1°46′81	1°46′83	1°46′40
8·0	1·47·92	1·47·65	1·46·73	1·46·53					1·46·91	1·46·96	1·46·62	1·46·50
13·0	1·47·77	1·47·44	1·46·88	1·46·40					1·46·76	1·46·96	1·46·77	1·46·50
18·0	1·47·77	1·47·27	1·47·03	1·46·67					1·46·83	1·46·96	1·46·74	1·46·51
23·0	1·47·86	1·47·24	1·47·03	1·46·82					1·46·69	1·46·96	1·46·70	1·46·66
28·0	1·47·86	1·47·22	1·46·96	1·46·95					1·46·64	1·47·03	1·46·70	1·46·81
33·0	1·47·86	1·46·98	1·46·69	1·47·10	1·46·95	1·46·33	1·46·95	1·46·84	1·46·68	1·46·96	1·46·77	1·46·93
38·0	1·47·79	1·46·90	1·46·65	1·47·10					1·46·83	1·46·96	1·46·71	1·46·75
43·0	1·47·75	1·46·88	1·46·58	1·47·10					1·46·83	1·46·96	1·46·71	1·46·75
48·0	1·47·72	1·46·88	1·46·52	1·47·10					1·46·89	1·46·96	1·46·50	1·46·75
53·0	1·47·72	1·46·83	1·46·48	1·47·10					1·46·81	1·46·89	1·46·50	1·46·72
58·0	1·47·72	1·47·03	1·46·89	1·47·10					1·46·81	1·46·90	1·46·43	1·46·82

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH APRIL 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′309	16′378	15′760	14′249	12′944	12′188	12′050	13′219	13′906	14′970	15′623	15′172	14′317
5·0	16·653	16·240	15·760	14·076	12·876					14·867	15·691	15·034	14·249
10·0	16·447	16·309	15·687	13·940	13·876					14·936	15·897	15·794	14·317
15·0	16·378	16·309	15·348	13·906	12·876					15·004	15·897	15·553	14·317
20·0	16·240	16·309	15·280	13·871	12·428					15·211	16·378	15·142	14·249
25·0	16·447	16·309	15·211	13·562	12·428					15·280	16·481	15·074	14·249
30·0	16·584	16·240	14·936	13·562	12·290	12·188	12·876	13·493	14·317	15·280	16·343	15·280	14·111
35·0	16·412	16·206	14·936	13·562	12·188					15·280	16·515	15·297	13·974
40·0	16·515	16·102	14·867	13·287	12·188					15·211	16·584	15·176	13·906
45·0	16·378	16·034	14·762	13·287	12·188					15·091	16·464	14·798	13·837
50·0	16·378	15·966	14·592	13·253	12·188					15·348	16·447	14·660	13·837
55·0	16·378	15·897	14·317	13·184	12·188					15·691	16·447	14·454	13·700

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·470	17·230	17·640	17·955	18·250	18·000	17·350	16·775	16·590	15·875	15·610	15·770	16·050
7·0	17·380	17·210	17·655	17·950	18·250					15·860	15·600	15·750	16·000
12·0	17·240	17·240	17·655	17·960	18·250					15·840	15·610	15·760	16·000
17·0	17·340	17·340	17·630	18·000	18·260					15·820	15·600	15·800	15·890
22·0	17·240	17·445	17·620	18·050	18·350					15·870	15·610	15·670	15·805
27·0	17·180	17·460	17·650	18·050	18·325					15·800	15·710	15·610	15·860
32·0	17·210	17·470	17·710	18·110	18·250	17·890	16·750	16·680	16·310	15·770	15·760	15·600	15·810
37·0	17·280	17·500	17·750	18·250	18·350					15·700	15·750	15·600	15·900
42·0	17·275	17·485	17·800	18·270	18·490					15·630	15·810	15·700	15·940
47·0	17·255	17·460	17·800	18·250	18·490					15·600	15·850	15·770	16·000
52·0	17·175	17·460	17·885	18·250	18·300					15·500	15·840	15·890	16·040
57·0	17·210	17·550	17·900	18·250	18·200					15·520	15·820	16·050	16·055
Therm.	82°4	83°0	83°9	84°3	85°3	86°0	86°4	87°0	87°0	87°0	86°8	86°0	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	11·06·30	10·14·50	9·06·30	8·09·55	8·06·20					11·04·60	10·30·99	10·44·10	10·11·80
8·0	10·46·90	10·14·50	8·49·20	8·09·55	8·06·20					11·04·60	10·30·99	10·37·50	10·19·50
13·0	10·42·00	10·14·50	8·49·20	8·09·55	8·11·50					11·04·60	10·30·90	10·31·10	10·19·59
18·0	10·27·10	10·04·50	8·49·20	8·09·55	8·01·70					11·07·85	10·35·20	10·20·20	10·19·50
23·0	10·27·10	9·43·60	8·41·80	8·09·55	4·01·70					11·09·00	10·39·40	10·20·20	10·19·50
28·0	10·27·10	9·38·50	8·36·80	8·09·55	8·01·70	8·34·55	9·23·35	9·46·40	10·31·25	11·03·60	10·30·15	10·26·80	10·19·50
33·0	10·21·00	9·38·50	8·36·80	8·09·55	8·01·70					10·48·00	10·30·15	10·32·00	10·19·50
38·0	10·17·00	9·38·10	8·29·70	7·47·40	8·01·70					10·48·00	10·34·90	10·32·00	10·12·70
43·0	10·14·50	9·33·10	8·29·70	7·47·40	7·45·30					10·48·00	10·29·95	10·13·10	10·12·70
48·0	10·14·50	9·27·80	8·17·00	7·47·40	7·45·30					10·36·80	10·49·40	10·13·10	10·12·70
53·0	10·14·50	9·24·60	8·17·00	8·06·20	7·45·30					10·30·90	10·49·40	10·03·80	10·07·00
58·0	10·14·50	9·17·80	8·17·00	8·06·20	8·09·75	8·03·55	9·38·75	10·21·15	11·04·60	10·30·90	10·44·10	10·03·00	10·07·00
Therm.	83°9	83°8	84°0	84°3	85°0	85°5	86°0	86°2	87°4	87°8	87°8	87°4	86°4

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH APRIL 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′76	16′30	14′93	13′78	12′63	12′63	13′83	14′47	15′51	16′19	16′76	14′93
5·0	16·82	16·24	14·78	13·47					15·51	16·30	16·61	14·99
10·0	16·76	16·04	14·62	13·36					15·51	16·50	16·30	14·99
15·0	16·82	15·97	14·47	13·36					15·51	16·56	16·04	14·93
20·0	16·82	15·77	14·47	13·36					15·66	16·76	15·82	14·78
25·0	16·82	15·66	14·40	12·95					15·92	17·02	15·51	14·52
30·0	16·76	15·51	14·14	12·90	12·90	13·42	13·99	14·99	15·82	16·92	15·92	14·47
35·0	16·56	15·51	13·94	12·90					15·71	17·08	15·97	14·47
40·0	16·56	15·51	13·94	12·68					15·77	17·13	15·56	14·47
45·0	16·56	15·35	13·94	12·68					15·97	17·08	15·45	14·47
50·0	16·56	15·19	13·94	12·68					16·04	17·08	15·19	14·47
55·0	16·50	14·99	13·88	12·68					16·19	16·82	15·04	14·14

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	34·630	35·000	35·120	35·400	35·270	34·350	33·800	33·650	33·000	32·600	33·000	33·300
7·0	34·610	35·040	35·130	35·400					32·970	32·650	33·000	33·300
12·0	34·630	35·090	35·100	35·430					32·940	32·600	32·970	33·290
17·0	34·700	35·080	35·100	35·460					32·900	32·670	33·000	33·240
22·0	34·740	35·090	35·130	35·510					32·950	32·680	32·930	33·200
27·0	34·790	35·100	35·150	35·540					32·955	32·750	32·800	33·150
32·0	34·850	35·120	35·180	35·560	34·900	33·650	33·690	33·400	32·880	32·840	32·800	33·230
37·0	34·820	35·140	35·270	35·590					32·760	32·900	32·770	33·300
42·0	34·860	35·100	35·350	35·650					32·670	32·970	32·900	33·350
47·0	34·800	35·100	35·430	35·700					32·600	33·000	33·030	33·400
52·0	34·800	35·100	35·480	35·500					32·550	33·000	33·200	33·430
57·0	34·900	35·160	35·400	35·400					32·550	33·000	33·340	33·450
Therm.	80°2	81°7	82°0	83°8	84°2	86°0	86°4	86°8	86°1	86°0	85°6	84°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3.0	1°47′67	1°47′10	1°46′74	1°46′29	1°46′41	1°46′41	1°46′57	1°46′83	1°47′46	1°47′10	1°47′51	1°47′10
8·0	1·47·48	1·47·10	1·46·86	1·46·23					1·47·50	1·47·17	1·47·37	1·47·03
13·0	1·47·50	1·46·93	1·46·72	1·46·38					1·47·28	1·47·38	1·47·27	1·47·10
18·0	1·47·65	1·46·69	1·46·83	1·46·38					1·46·77	1·47·24	1·47·18	1·47·10
23·0	1·47·65	1·46·62	1·46·79	1·46·07					1·46·69	1·47·57	1·46·77	1·47·03
28·0	1·47·65	1·46·55	1·46·48	1·46·21					1·46·76	1·47·82	1·46·84	1·47·17
33·0	1·47·58	1·46·42	1·46·63	1·46·22	1·46·55	1·46·95	1·46·70	1·46·95	1·46·76	1·47·68	1·47·05	1·47·02
38·0	1·47·55	1·45·42	1·46·63	1·46·41					1·46·76	1·47·86	1·47·07	1·46·89
43·0	1·47·44	1·46·50	1·46·50	1·46·41					1·46·69	1·47·92	1·47·24	1·46·83
48·0	1·47·37	1·46·53	1·46·50	1·46·41					1·46·57	1·47·80	1·47·14	1·46·91
53·0	1·47·31	1·46·50	1·46·46	1·46·41					1·46·69	1·47·79	1·47·15	1·46·91
58·0	1·47·24	1·46·52	1·46·53	1·46·41					1·47·03	1·47·79	1·47·08	1·46·91

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′038	16′721	17′682	17′064	15′280	12′708	11′242	11′501	12′188	13′219	14′386	15′038	14′567
5·0	15·280	16·687	17·682	17·064	14·936					13·355	14·523	15·142	14·728
10·0	15·450	16·926	17·475	16·996	14·936					13·425	14·592	15·142	14·592
15·0	15·450	17·133	17·544	16·996	15·108					13·700	14·592	15·142	14·454
20·0	15·794	17·270	17·544	16·996	14·249					13·700	14·660	15·004	14·386
25·0	15·760	17·339	17·475	16·960	14·249					13·768	14·728	15·004	14·317
30·0	15·828	17·339	17·339	16·960	13·974	11·845	11·535	11·741	12·669	13·837	14·762	14·936	14·249
35·0	15·966	17·407	17·339	16·343	13·647					13·906	14·832	14·936	14·249
40·0	16·240	17·544	17·339	16·309	13·493					13·906	14·728	14·936	14·213
45·0	16·378	17·612	17·339	16·240	13·219					14·008	14·762	14·936	14·111
50·0	16·309	17·682	17·339	15·691	13·098					14·111	14·798	14·936	14·042
55·0	16·584	17·682	17·218	15·623	12·876					14·111	14·867	14·867	14·042

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·850	18·115	18·210	18·305	18·500	18·450	18·300	18·000	17·650	17·330	16·995	16·590	16·600
7·0	17·925	18·050	18·220	18·305	18·450					17·320	16·955	16·590	16·600
12·0	17·980	17·985	18·290	18·300	18·450					17·195	16·900	16·590	16·590
17·0	17·905	18·130	18·290	18·300	18·450					17·160	16·840	16·590	16·600
22·0	17·950	18·180	18·260	18·300	18·400					17·135	16·840	16·590	16·600
27·0	17·950	18·150	18·260	18·350	14·500					17·125	16·770	16·610	16·610
32·0	17·950	18·180	18·265	18·350	18·500	18·450	18·220	17·800	17·400	17·110	16·720	16·610	16·610
37·0	17·970	18·180	18·350	18·400	18·500					17·100	16·690	16·610	16·620
42·0	18·045	18·180	18·300	18·450	18·500					17·050	16·670	16·620	16·620
47·0	18·035	18·130	18·300	18·500	18·500					17·010	16·650	16·620	16·660
52·0	18·075	18·170	15·300	18·450	18·500					17·010	16·650	16·640	16·690
57·0	18·100	18·185	18·300	18·450	18·460					16·980	16·600	16·640	16·690
Therm.	82°5	83°0	84°1	85°3	86°0	87°0	87°5	88°0	88°3	88°7	88°9	88°5	87°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	10·40·70	11·15·30	10·23·20	9·08·05	7·16·50					10·11·25	10·16·20	10·10·70	10·01·70
8·0	10·45·60	11·15·30	10·18·40	8·46·00	7·16·50					10·11·25	10·16·20	10·10·70	10·01·70
13·0	11·01·40	11·15·30	10·10·40	8·37·95	7·16·50					10·14·90	10·16·20	10·10·70	10·01·70
18·0	11·01·40	11·08·60	10·10·40	8·37·95	7·16·50					10·14·90	10·16·20	10·03·10	10·15·90
23·0	11·01·40	11·08·60	10·02·70	8·26·00	7·16·50					10·14·90	10·19·15	10·03·10	10·15·90
28·0	11·01·40	11·02·30	10·02·70	8·14·55	7·16·50	6·34·10	7·17·50	8·34·85	10·00·00	10·14·90	10·19·15	10·03·10	10·15·90
33·0	11·12·20	11·02·30	9·41·00	8·14·55	7·00·50					10·14·90	10·19·15	10·10·30	10·15·90
38·0	11·12·20	10·43·40	9·33·55	7·45·10	7·00·50					10·14·90	10·10·70	10·10·30	10·15·90
43·0	11·12·20	10·43·40	9·33·55	7·39·65	6·43·15					10·14·90	10·10·70	10·14·10	10·20·80
48·0	11·15·30	10·38·70	9·24·40	7·39·65	6·43·15					10·16·20	10·10·70	10·14·10	10·20·80
53·0	11·15·30	10·33·80	9·16·70	7·31·35	6·34·10					10·16·20	10·10·70	10·06·70	10·20·80
58·0	11·15·30	10·29·90	9·08·05	7·31·35	6·34·10	6·48·60	8·20·60	9·16·95	10·11·25	10·16·20	10·10·70	10·01·70	10·20·80
Therm.	84°0	83°9	84°4	85°2	85°8	86°5	87°0	87°7	88°6	89°2	89°5	89°5	88°3

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14'93	15'56	15'51	16'04	13'00	12'11	12'31	12'90	14'14	15'04	15'56	15'45
5·0	14·93	15·56	15·82	15·87					14·20	15·09	15·66	15·19
10·0	15·09	15·56	16·19	15·40					14·40	15·19	15·66	15·09
15·0	15·19	15·51	16·56	15·19					14·47	15·30	15·61	15·19
20·0	15·45	15·51	16·92	14·99					14·47	15·30	15·51	15·04
25·0	15·45	15·51	17·02	14·78					14·62	15·40	15·51	14·99
30·0	15·51	15·51	17·38	14·67	12·37	12·37	12·47	13·42	14·67	15·51	15·51	14·99
35·0	15·51	15·45	17·08	14·47					14·67	15·51	15·51	14·93
40·0	15·51	15·25	16·82	14·14					14·78	15·40	15·51	14·88
45·0	15·56	15·25	16·61	13·88					14·93	15·40	15·51	14·73
50·0	15·56	15·19	16·56	13·62					14·99	15·45	15·51	14·62
55·0	15·56	15·09	16·45	13·42					14·99	15·51	15·51	14·62

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	35·150	34·870	35·200	35·400	35·450	35·350	35·060	34·600	34·260	34·000	33·720	33·970
7·0	35·120	34·920	35·200	35·400					34·240	34·000	33·740	33·970
12·0	35·100	35·000	35·200	35·400					34·200	33·950	33·740	33·940
17·0	35·080	35·000	35·200	35·380					34·190	33·900	33·750	33·930
22·0	35·030	35·000	35·230	35·360					34·180	33·850	33·790	33·930
27·0	35·000	35·000	35·260	35·400					34·180	33·800	33·800	33·950
32·0	34·980	35·980	35·300	35·400	35·400	35·345	34·890	34·380	34·190	33·800	33·800	33·980
37·0	34·980	35·050	35·340	35·400					34·150	33·800	33·830	34·000
42·0	34·920	35·090	35·390	35·400					34·120	33·780	33·870	34·020
47·0	34·900	35·120	35·400	35·400					34·070	33·800	33·900	34·040
52·0	34·890	35·150	35·380	35·440					34·020	33·760	33·900	34·070
57·0	34·800	35·180	35·400	35·440					34·020	33·750	33·970	34·090
Therm.	80°0	81°8	83°6	84°0	85°7	86°3	87°2	88°0	87°9	87°3	87°6	86°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48'06	1°48'30	1°48'11	1°47'91	1°46'77	1°45'60	1°46'14	1°46'41	1°46'57	1°47'17	1°47'38	1°47'07
8·0	1·48·03	1·48·15	1·48·11	1·46·85					1·46·70	1·47·30	1·47·34	1·47·22
13·0	1·48·27	1·47·95	1·48·05	1·47·00					1·46·64	1·47·37	1·47·34	1·47·37
18·0	1·48·47	1·48·01	1·48·19	1·47·11					1·46·62	1·47·22	1·47·20	1·47·23
23·0	1·48·61	1·48·16	1·48·19	1·46·59					1·46·48	1·47·29	1·47·20	1·47·17
28·0	1·48·53	1·48·10	1·48·15	1·46·74					1·46·55	1·47·36	1·47·34	1·47·24
33·0	1·18·53	1·47·96	1·48·15	1·46·75	1·46·21	1·45·89	1·46·24	1·46·60	1·46·62	1·47·39	1·47·44	1·47·17
38·0	1·48·46	1·48·24	1·47·68	1·46·57					1·46·54	1·47·46	1·47·28	1·47·03
43·0	1·48·44	1·48·39	1·47·65	1·46·70					1·46·69	1·47·36	1·47·00	1·46·99
48·0	1·48·51	1·48·39	1·47·72	1·46·72					1·46·64	1·47·39	1·46·85	1·46·89
53·0	1·48·44	1·48·24	1·47·17	1·46·74					1·46·74	1·47·29	1·46·85	1·46·96
58·0	1·48·44	1·48·12	1·47·25	1·46·86					1·46·89	1·47·36	1·46·78	1·47·11

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′798	16′515	17′339	16′447	14′249	12′015	10′196	10′058	11′569	12′669	13′906	14′660	14′454
5·0	14·936	16·584	17·339	16·274	13·700					12·806	14·042	14·660	14·386
10·0	15·004	16·858	17·270	15·966	13·596					13·013	14·042	14·660	14·336
15·0	15·211	16·858	17·270	15·966	13·562					13·081	14·111	14·592	14·111
20·0	15·623	16·858	17·201	15·623	13·562					13·219	14·317	14·592	14·111
25·0	15·657	16·996	17·201	15·280	13·184					13·355	14·368	14·592	14·042
30·0	15·725	17·201	17·167	15·004	12·876	10·814	9·785	10·951	12·188	13·425	14·454	14·592	13·903
35·0	15·760	17·270	17·098	14·936	12·876					13·493	14·454	14·592	13·903
40·0	15·966	17·270	16·966	14·936	12·772					13·630	14·386	14·523	13·903
45·0	16·240	17·270	16·653	14·936	12·188					13·768	14·543	14·592	13·837
50·0	16·172	17·270	16·653	14·386	12·188					13·906	14·592	14·523	13·837
55·0	16·309	17·270	16·653	14·249	12·015					13·906	14·592	14·454	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·000	18·245	18·460	18·800	19·150	19·200	18·950	18·640	18·220	17·900	17·640	17·460	17·410
7·0	18·060	18·275	18·510	18·900	19·150					17·840	17·620	17·430	17·430
12·0	18·085	18·300	18·550	18·900	19·150					17·830	17·600	17·420	17·420
17·0	18·090	18·300	18·560	18·950	19·145					17·820	17·600	17·410	17·470
22·0	18·130	18·275	18·610	18·950	19·140					17·800	17·600	17·410	17·380
27·0	18·130	18·260	18·640	18·980	19·145					17·780	17·550	17·410	17·360
32·0	18·150	18·300	18·700	18·990	19·200	19·025	18·800	18·400	18·080	17·750	17·540	17·430	17·390
37·0	18·155	18·310	18·700	19·050	19·200					17·720	17·510	17·430	17·390
42·0	18·190	18·350	18·700	19·050	19·200					17·700	17·500	17·410	17·400
47·0	18·180	18·390	18·725	19·110	19·200					17·690	17·490	17·400	17·410
52·0	18·180	18·400	18·800	19·150	19·200					17·680	17·480	17·390	17·410
57·0	18·240	18·450	18·800	19·150	19·200					17·640	17·470	17·410	17·430
Therm.	82°5	83°1	84°2	85°0	85°8	86°2	87°0	87°4	87°8	88°0	87°8	87°3	86°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	10·17·70	10·30·70	9·44·50	8·16·60	7·00·00					9·29·50	10·15·75	10·02·00	9·34·50
8·0	10·22·20	10·30·70	9·32·80	8·03·95	7·00·00					9·38·85	10·15·75	9·45·00	9·28·00
13·0	10·22·20	10·30·70	9·27·00	8·03·95	7·00·00					9·41·10	10·15·75	9·45·00	9·35·00
18·0	10·27·80	10·26·10	9·20·40	7·35·25	6·41·90					9·44·00	10·15·75	9·41·00	9·35·00
23·0	10·27·80	10·26·10	9·13·70	7·29·40	6·41·90					9·48·50	10·12·90	9·41·00	9·29·00
28·0	10·27·80	10·26·10	9·07·00	7·29·40	6·11·90	6·43·65	6·42·80	8·11·80	9·11·30	10·07·30	10·11·00	9·41·00	9·29·00
33·0	10·27·80	10·19·80	8·46·80	7·21·25	6·11·90					10·09·85	10·11·00	9·41·00	9·24·00
38·0	10·27·80	10·19·80	8·46·80	7·21·25	6·11·90					10·12·90	10·11·00	9·41·00	9·24·00
43·0	10·27·80	10·14·10	8·37·20	7·10·05	6·32·50					10·12·90	10·08·50	9·41·00	9·24·00
48·0	10·27·80	10·09·00	8·37·20	7·10·05	6·32·50					10·13·00	10·06·50	9·41·00	9·24·00
53·0	10·27·80	10·01·70	8·27·60	7·00·00	6·32·50					10·13·00	10·06·50	9·41·00	9·24·00
58·0	10·30·70	9·44·50	8·16·60	7·00·00	6·32·50	7·01·10	7·26·30	8·35·10	9·27·30	10·13·00	10·02·00	9·34·50	9·24·00
Therm.	84°2	84°0	84°4	85°0	85°3	86°0	86°5	87°4	88°0	88°6	89°2	88°5	87°5

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′02	17′80	17′02	14′73	12′37	10′81	10′81	12′37	13′42	14′73	15′35	15′30
5·0	17·13	17·80	16·82	14·47					13·47	14·78	15·30	15·19
10·0	17·28	17·80	16·56	14·20					13·68	14·88	15·30	15·04
15·0	17·39	17·75	16·40	13·99					13·83	14·93	15·30	14·99
20·0	17·48	17·60	16·19	13·94					13·94	14·99	15·35	14·99
25·0	17·60	17·60	16·04	13·73					14·14	15·04	15·30	14·88
30·0	17·60	17·60	15·82	13·47		10·28	11·85	12·90	14·14	15·19	15·30	14·83
35·0	17·65	17·60	15·61	13·36					14·30	15·19	15·30	14·73
40·0	17·70	17·48	15·45	13·16					14·40	15·25	15·35	14·73
45·0	17·75	17·34	15·30	12·90					14·47	15·25	15·35	14·73
50·0	17·80	17·28	14·99	12·68					14·47	15·25	15·35	14·67
55·0	17·80	17·13	14·78	12·52					14·62	15·30	15·30	14·73

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	35·320	35·490	35·780	36·040	36·100	35·850	35·570	35·100	34·980	34·720	34·620	34·660
7·0	35·340	35·500	35·810	36·020					34·850	34·700	34·600	34·640
12·0	35·350	35·580	35·800	36·000					34·830	34·720	34·620	34·650
17·0	35·390	35·540	35·830	36·000					34·810	34·700	34·630	34·680
22·0	35·380	35·600	35·870	36·000					34·840	34·690	34·620	34·650
27·0	35·380	35·620	35·920	36·040					34·830	34·670	34·630	34·630
32·0	35·400	35·640	35·900	36·090	35·900	35·725	35·280	35·000	34·790	34·680	34·640	34·620
37·0	35·400	35·670	35·900	36·050					34·820	34·650	34·650	34·640
42·0	35·400	35·690	35·950	36·060					34·930	34·630	34·660	34·670
47·0	35·430	35·700	35·980	36·080					34·780	34·640	34·690	34·690
52·0	35·440	35·720	36·000	36·100					34·720	34·620	34·670	34·690
57·0	35·460	35·750	36·050	36·100					34·740	34·600	34·650	34·700
Therm.	80°0	81°9	82°3	84°0	85°6	86°4	87°0	87°4	87°8	86°3	86°0	85°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′41	1°47′53	1°46′92	1°46′88	1°46′37	1°45′99	1°45′56	1°46′21	1°46′31	1°46′54	1°46′72	1°46′51
8·0	1·47·34	1·47·53	1·47·03	1·46·48					1·46·31	1·46·67	1·46·72	1·46·73
13·0	1·47·48	1·47·46	1·46·87	1·46·52					1·46·36	1·46·53	1·46·72	1·46·88
18·0	1·47·33	1·47·46	1·47·02	1·46·63					1·46·43	1·46·60	1·46·65	1·46·74
23·0	1·47·33	1·47·39	1·46·81	1·46·73					1·46·14	1·46·31	1·46·65	1·46·89
28·0	1·47·47	1·47·39	1·47·16	1·46·39					1·46·28	1·46·86	1·46·50	1·46·82
33·0	1·47·53	1·47·36	1·46·63	1·46·24	1·45·88	1·45·57	1·46·02	1·46·26	1·46·21	1·46·94	1·46·50	1·46·68
38·0	1·47·60	1·47·43	1·46·71	1·46·24					1·46·12	1·46·79	1·46·50	1·46·68
43·0	1·47·60	1·47·30	1·46·71	1·46·41					1·46·26	1·46·88	1·46·29	1·46·68
48·0	1·47·60	1·46·98	1·46·85	1·45·97					1·46·55	1·46·86	1·46·50	1·46·62
53·0	1·47·60	1·46·98	1·46·59	1·46·26					1·46·69	1·46·93	1·46·43	1·46·62
58·0	1·47·60	1·47·12	1·45·74	1·46·23					1·46·54	1·46·79	1·46·36	1·46·62

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'074	16'172	16'515	15'794	13'838	13'321	11'879	12'050	11'981	12'876	14'111	14'042	13'700
5·0	15·314	16·240	16·447	15·314	13·785					12·944	14·111	14·042	13·630
10·0	15·348	16·136	16·378	15·280	13·389					13·150	14·179	14·042	13·630
15·0	15·450	16·210	16·309	15·280	13·596					13·219	14·179	14·042	13·700
20·0	15·502	16·309	16·309	15·004	13·837					13·287	14·145	14·042	13·630
25·0	15·760	16·378	15·240	14·936	13·700					13·562	14·145	14·042	13·562
30·0	15·691	16·309	16·309	14·798	13·562	12·533	12·015	11·845	12·394	13·768	14·111	14·042	13·562
35·0	15·828	16·378	16·309	14·626	13·562					13·906	14·179	14·042	13·562
40·0	15·966	16·378	16·136	14·351	13·562					13·906	14·111	14·042	13·562
45·0	15·966	16·515	15·966	14·249	13·562					13·974	14·111	13·974	13·459
50·0	16·034	16·615	15·966	14·249	13·493					14·042	14·111	13·837	13·425
55·0	16·102	16·549	15·966	14·249	13·356					14·042	14·076	13·768	13·389

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·170	18·210	18·410	18·750	19·100	18·950	18·650	18·390	18·150	17·750	17·450	17·430	17·590
7·0	18·160	18·190	18·490	18·760	19·050					17·730	17·445	17·430	17·550
12·0	18·220	18·200	18·500	18·750	19·000					17·680	17·440	17·440	17·510
17·0	18·220	18·200	18·510	18·765	19·000					17·640	17 440	17·440	17·560
22·0	18·200	18·190	18·550	18·850	19·000					17·610	17·410	17·440	17·590
27·0	18·210	18·200	18·560	18·850	19·025					17·567	17·410	17·420	17·590
32·0	18·160	18·250	18·590	18·850	18·950	18·650	18·500	18·300	17·975	17·530	17·420	17·410	17·520
37·0	18·195	18·250	18·600	18·950	19·050					17·480	17·440	17·400	17·510
42·0	18·195	18·270	18·650	19·000	19·050					17·465	17·440	17·450	17·560
47·0	18·150	18·320	18·650	19·050	19·050					17·460	17·440	17·500	17·590
52·0	18·150	18·350	19·700	19·050	19·050					17·465	17·440	17·510	17·580
57·0	18·200	18·390	18·750	19·100	18·990					17·450	17·440	17·570	17·560
Therm.	83°0	83°7	84°6	85°5	86°5	87°0	87°4	87°9	87°9	87°9	87°4	87°0	86°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	10·17·90	9·47·90	8·42·40	8·06·10	7·28·30					9·34·20	9·47·25	9·35·95	9·24·00
8·0	10·17·90	9·40·60	8·37·00	8·06·10	7·28·30					9·35·00	9·46·50	9·32·30	9·21·00
13·0	10·17·90	9·35·30	8·37·00	8·06·10	7·28·30					9·41·10	9·41·30	9·32·30	9·24·00
18·0	10·17·90	9·35·30	8·26·20	7·48·35	7·28·30					9·43·20	9·41·80	9·32·30	9·36·10
23·0	10·17·90	9·28·80	8·26·20	7·48·35	7·28·30					9·43·20	9·41·80	9·32·30	9·36·10
28·0	10·17·90	9·23·60	8·20·10	7·36·70	7·16·50	7·18·80	7·32·55	8·10·80	9·15·00	9·46·65	9·35·95	9·32·30	9·41·20
33·0	10·12·70	9·28·60	8·14·75	7·36·10	7·16·50					10·00·30	9·36·95	9·32·30	9·41·20
38·0	10·12·70	9·16·40	8·14·75	7·36·10	7·07·50					10·03·85	9·36·95	9·32·30	9·46·30
43·0	10·12·70	9·11·30	8·14·75	7·36·10	7·07·50					10·03·85	9·36·95	9·32·30	9·46·30
48·0	10·02·50	9·11·30	8·14·75	7·28·30	7·07·50					9·49·50	9·36·95	9·27·70	9·46·30
53·0	10·02·50	9·03·50	8·14·75	7·28·30	7·07·50					9·49·50	9·36·95	9·27·70	9·46·30
58·0	9·47·90	8·46·80	8·14·75	7·28·30	7·10·15	7·14·50	7·48·10	8·34·70	9·34·20	9·47·25	9·36·95	9·24·00	9·46·30
Therm.	84°5	84°4	84°7	85°0	85°8	86°3	87°0	87°7	88°2	88°7	88°7	88°0	87°3

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17'18	17'53	16'66	15'04	14'40	13'42	13'31	13'26	14'20	15'19	14'99	14'73
5·0	17·18	17·48	16·56	14·99					14·30	15·25	14·99	14·73
10·0	17·23	17·43	16·45	14·99					14·35	15·25	14·99	14·67
15·0	17·23	17·28	16·19	14·99					14·47	15·25	14·99	14·62
20·0	17·34	17·13	16·04	14·99					14·73	15·19	14·99	14·62
25·0	17·39	17·08	15·97	14·93					14·73	15·19	14·99	14·62
30·0	17·43	17·08	15·82	14·88	13·42	13·42	12·90	13·83	14·83	15·09	14·99	14·57
35·0	17·18	17·08	15·66	14·78					14·99	15·14	14·99	14·47
40·0	17·48	17·08	15·56	14·62					15·19	15·14	14·99	14·47
45·0	17·53	17·02	15·56	14·47					15·14	15·14	14·99	14·47
50·0	17·53	16·97	15·30	14·47					15·19	15·09	14·99	14·47
55·0	17·53	16·82	15·09	14·47					15·19	15·04	14·83	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	36·990	35·200	35·400	35·740	35·600	35·300	35·020	34·820	34·600	34·350	34·400	34·630
7·0	36·980	35·250	35·400	35·680					34·600	34·330	34·430	34·700
12·0	36·980	35·300	35·420	35·650					34·590	34·360	34·440	34·650
17·0	36·980	35·330	35·440	35·670					34·510	34·320	34·450	34·700
22·0	36·960	35·360	35·490	35·700					34·470	34·300	34·470	34·700
27·0	36·970	35·390	35·500	35·680					34·480	34·340	34·470	34·700
32·0	36·990	35·430	35·560	35·650	35·250	35·200	35·300	34·730	34·470	34·370	34·460	34·720
37·0	35·000	35·420	35·580	35·690					34·460	34·350	34·450	34·700
42·0	35·050	35·430	35·620	35·700					34·390	34·370	34·490	34·700
47·0	35·070	35·400	35·670	35·730					34·400	34·400	34·540	34·720
52·0	35·100	35·400	35·700	35·740					34·380	34·400	34·590	34·700
57·0	35·130	35·400	35·730	35·690					34·360	34·400	34·550	34·700
Therm.	80°4	81°8	82°3	84°0	85°6	86°4	87°4	87°6	87°8	86°3	85°9	85°7

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°47'51	1°47'85	1°47'56	1°46'80	1°46'53	1°46'23	1°46'12	1°46'20	1°46'22	1°46'74	1°46'82	1°46'62
8·0	1·47·58	1·47·78	1·47·08	1·46·85					1·46·29	1·46·74	1·46·82	1·46·55
13·0	1·47·47	1·47·71	1·47·34	1·46·45					1·46·36	1·46·80	1·46·82	1·46·70
18·0	1·47·58	1·47·64	1·47·48	1·46·66					1·46·42	1·46·80	1·46·82	1·46·77
23·0	1·47·64	1·47·64	1·47·34	1·46·90					1·46·35	1·46 92	1·46·82	1·46·70
28·0	1·47·71	1·47·43	1·47·42	1·46·91					1·46·48	1·46·92	1·46·82	1·46·63
33·0	1·47·64	1·47·49	1·47·42	1·46·77	1·46·40	1·46·37	1·46·20	1·46·32	1·46·54	1·46·89	1·46·82	1·46·63
38·0	1·47·56	1·47·49	1·47·40	1·46·77					1·46·63	1·46·95	1·46·82	1·46·63
43·0	1·47·56	1·47·47	1·47·13	1·46·77					1·46·53	1·46·89	1·46·82	1·46·77
48·0	1·47·70	1·47·44	1·47·16	1·46·77					1·46·75	1·46·89	1·46·89	1·46·66
53·0	1·47·70	1·47·59	1·47·16	1·46·84					1·46·82	1·46·89	1·46·75	1·46·63
58·0	1·47·73	1·47·73	1·47·16	1·46·70					1·46·67	1·46·85	1·46·68	1·46·59

TERM-HOUR OBSERVATIONS ON THE 9TH AND 10TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0											15'314	14'867	14'386
5·0											15·280	14·832	14·249
10·0											15·290	14·762	14·249
15·0											15·280	14·728	14·317
20·0											15 280	14·660	14·283
25·0			No Observations.								15·280	14·660	14·249
30·0											15 245	14·660	14·249
35·0											15·211	14·592	14·111
40·0											15·142	14·592	14·042
45·0											15·142	14·592	14·008
50·0											15·074	14·557	13·974
55·0											15·004	14·523	13 940

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0											16·350	16·350	16·610
7·0											16·350	16·380	16·610
12·0											16·360	16·390	16·580
17·0											16·340	16·410	16·570
22·0											16·340	16·420	16·585
27·0											16·320	16·450	16·580
32·0			No Observations.								16·320	16·480	16·570
37·0											16 320	16·510	16·570
42·0											16·320	16·550	16·580
47·0											16·310	16·550	16·560
52·0											16·320	16·580	16·555
57·0											16·340	16·590	16·590
Therm.											89°0	88°8	87°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0											12·13·10	11·23·20	11·30·20
8·0											12·02·30	11·23·20	11·30·20
13·0											12·02·30	11·23·20	11·36·90
18·0											12·02·30	11·23·20	11·36·90
23·0											11·42·70	11·23·20	12·12·90
28·0											11·42·70	11·23·20	12·12·90
33·0			No Observations.								11·35·30	11·30·20	12·12·90
38·0											11·35·30	11·30·20	12·12·90
43·0											11·35·30	11·30·20	12·12·90
48·0											11·28·10	11·30·20	12·12·90
53·0											11·28·10	11·30·20	12·12·90
58·0											11·28·10	11·30·20	12·20·70
Therm.											89°9	89°6	88°6

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0										16′56	16′04	15′51
5·0										16·50	16·04	15·45
10·0										16·45	15·97	15·45
15·0										16·45	15·92	15·40
20·0										16·40	15·87	15·40
25·0										16·35	15·71	15·35
30·0										16·35	15·77	15·30
35·0										16·30	15·71	15·25
40·0										16·24	15·66	15·19
45·0										16·19	15·51	15·19
50·0										16·09	15·51	15·09
55·0										16·04	15·51	14·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0										32·900	33·000	33·400
7·0										32·900	33·000	33·400
12·0										32·900	33·030	33·400
17·0										32·900	33·080	33·420
22·0										32·920	33·100	33·420
27·0										32·900	33·130	33·400
32·0										32·900	33·170	33·430
37·0										32·900	33·200	33·440
42·0										32·900	33·240	33·450
47·0										32·900	33·290	33·470
52·0										32·930	33·340	33·500
57·0										32·970	33·370	33·500
Therm.										87°7	87°6	86°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0										1°46′94	1°46′78	1°46′87
8·0										1·46·91	1·46·74	1·46·88
13·0										1·46·91	1·46·67	1·46·88
18·0										1·47·05	1·46·64	1·46·95
23·0										1·47·05	1·46·57	1·46·91
28·0										1·47·05	1·46·57	1·46·98
33·0										1·47·02	1·46·57	1·46·88
38·0										1·46·98	1·46·50	1·46·74
43·0										1·47·05	1·46·50	1·46·67
48·0										1·47·05	1·46·36	1·46·79
53·0										1·46·98	1·47·62	1·46·75
58·0										1·46·91	1·46·86	1·46·72

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·362	16·481	15·897	15·108	13·493	12·050	11·501	11·810	12·806	13·906	14·936	15·348	14·728
5·0	16·000	16·549	15·897	15·280	13·219					14·042	14·936	15·280	14·692
10·0	16·102	16·584	15·828	14·728	13·219					14·111	15·280	15·211	14·592
15·0	16·172	16·481	15·897	14·454	13·219					14·111	15·280	15·142	14·523
20·0	16·172	16·481	15·966	14·249	13·047					14·179	15·348	15·074	14·592
25·0	16·343	16·309	15·828	14·249	12·876					14·317	15·314	15·074	14·523
30·0	16 274	16·240	15·760	14·249	12·876	11·845	11·501	12·188	13·493	14·454	15·348	15·038	14·454
35·0	16·549	16·378	15·760	14·249	12·876					14·557	15·348	15·004	14·386
40·0	16·447	16·309	15·553	13·923	12·978					14·660	15·485	15·004	14·317
45·0	16·481	16·172	15·280	13·630	12·533					14·660	15·416	14·936	14·179
50·0	16·378	16·068	15·314	13·596	12·256					14·728	15·382	14·936	14·111
55·0	16·378	15·966	15·280	13·562	12·256					14·867	15·348	14·867	14·042

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·670	17·930	18·250	18·450	18·600	18·410	18·090	17·720	17·310	17·080	17·000	16·910	16·890
7·0	17·640	17·950	18·280	18·490	18·590					17·050	16·990	16·910	16·910
12·0	17·625	17·945	18·320	18·500	18·550					17·050	16·990	16·910	16·950
17·0	17·675	18·025	18·350	18·500	18·550					17·050	16·990	16·905	16·960
22·0	17·750	18·030	18·350	18·525	18·575					17·040	16·990	16·905	16·960
27·0	17·735	18·055	18·350	18·530	18·550					17·035	16·980	16·905	16·935
32·0	17·850	18·070	18·350	18·495	18·550	18·250	17·850	17·500	17·190	17·025	16·970	16·910	16·955
37·0	17·735	18·090	18·350	18·535	18·550					17·010	16·950	16·910	16·975
42·0	17·790	18·100	18·350	18·550	18·550					17·000	16·930	16·910	16·990
47·0	17·800	18·175	18·360	18·550	18·510					17·025	16·920	16·890	16·970
52·0	17·815	18·200	18·400	18·550	18·500					17·025	16·910	16·820	16·995
57·0	17·930	18·210	18·450	18·550	18·450					17·010	16·910	16·810	17·015
Therm.	84°5	85°0	86°0	87°2	88°0	88°1	88°7	88°8	89°0	89°0	88°8	88°3	87°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	12·25·90	12·00·30	11·14·30	9·49·90	9·22·75					12·03·30	12·09·00	11·37·40	11·32·40
8·0	12·25·90	11·43·80	11·08·50	9·38·30	9·22·75					12·09·00	12·09·00	11·37·40	11·25·80
13·0	12·25·90	11·43·80	11·08·50	9·38·30	9·26·50					12·09·00	12·09·00	11·37·40	11·25·80
18·0	12·25·90	11·43·80	10·48·30	9·31·95	9·26·50					12·09·00	12·03·40	11·37·40	11·25·80
23·0	12·18·90	11·36·50	10·41·80	9·31·95	9·26·50					12·09·00	12·03·40	11·37·40	11·25·80
28·0	12·18·90	11·36·50	10·36·30	9·31·95	9·26·50	9·30·75	9·30·80	10·41·55	11·34·50	12·09·00	12·04·05	11·37·40	11·25·80
33·0	12·14·00	11·30·40	10·29·60	9·37·85	9·26·50					12·09·00	12·04·05	11·37·40	11·25·80
38·0	12·14·00	11·26·20	10·21·75	9·37·85	9·26·50					12·09·00	11·45·25	11·37·40	11·25·80
43·0	12·06·60	11·26·20	10·21·70	9·34·70	9·26·50					12·09·00	11·42·90	11·37·40	11·25·80
48·0	12·06·60	11·18·40	10·12·65	9·34·70	9·26·50					12·09·00	11·42·90	11·37·40	11·25·80
53·0	12·00·30	11·18·40	10·05·60	9·34·70	9·26·50					12·09·00	11·42·90	11·37·40	11·25·80
58·0	12·00·30	11·14·30	9·49·90	9·22·75	9·26·50	9·30·80	10·12·25	11·13·60	12·03·30	12·09·00	11·37·40	11·32·40	11·25·80
Therm.	85°2	85°0	85°5	86°1	87°0	87°5	88°0	88°6	89°4	89°8	90°2	89°7	88°5

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′53	17′23	16′30	14′78	13′26	12′63	13′000	14′20	15′14	16′24	16′50	15′97
5·0	17·53	17·18	16·04	14·47					15·30	16·40	16·45	15·82
10·0	17·60	17·13	15·97	14·47					15·45	16·50	16·30	15·61
15·0	17·60	17·08	15·82	14·30					15·51	16·50	16·19	15·51
20·0	17·60	17·08	15·66	14·25					15·51	16·50	16·14	15·51
25·0	17·60	17·02	15·51	14·14					15·61	16·56	16·04	15·51
30·0	17·53	16·97	15·35	14·04	12·90	12·90	13·42	14·57	15·77	16·56	16·04	15·51
35·0	17·48	16·82	15·19	13·94					15·92	16·56	16·04	15·51
40·0	17·43	16·66	15·04	13·73					15·97	16·56	16·04	15·45
45·0	17·39	16·56	14·99	13·57					16·04	16·56	16·04	15·30
50·0	17·28	16·56	14·99	13·42					16·04	16·56	16·04	15·30
55·0	17·18	16·45	14·93	13·42					16·14	16·56	16·04	15·25

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	34·300	34·530	34·740	34·900	34·590	34·150	33·800	33·420	33·280	33·240	33·270	33·500
7·0	34·340	34·550	34·750	34·975					33·220	33·260	33·300	33·520
12·0	34·360	34·580	34·750	34·900					33·190	33·270	33·300	33·550
17·0	34·390	34·570	34·760	34·850					33·200	33·240	33·300	33·600
22·0	34·400	34·580	34·780	34·820					33·200	33·230	33·320	33·600
27·0	34·420	34·600	34·790	34·780					33·200	33·200	33·370	33·640
32·0	34·450	34·620	34·800	34·750	34·400	33·950	33·580	33·300	33·190	33·200	33·400	33·650
37·0	34·480	34·600	34·830	34·730					33·200	33·220	33·430	33·670
42·0	34·480	34·630	34·850	34·700					33·200	33·230	33·480	33·690
47·0	34·490	34·620	34·900	34·700					33·230	33·200	33·490	33·700
52·0	34·500	34·650	34·890	34·670					33·240	33·240	33·480	33·700
57·0	34·520	34·700	34·920	34·630					33·250	33·290	33·490	33·700
Therm.	82°0	82°4	84°0	85°6	86°0	87°4	88°0	88°4	87°8	87°6	86°4	86°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′82	1°47′67	1°47′60	1°46′99	1°46′69	1°46′60	1°46′74	1°46′88	1°47′12	1°47′48	1°47′84	1°47′51
8·0	1·47·89	1·47·67	1·47·94	1·47·00					1·47·25	1·47·28	1·47·77	1·47·37
13·0	1·47·92	1·47·60	1·47·40	1·47·29					1·47·32	1·47·62	1·47·70	1·47·37
18·0	1·47·82	1·47·67	1·47·03	1·47·29					1·47·18	1·47·62	1·47·77	1·47·30
23·0	1·47·82	1·47·74	1·47·03	1·47·12					1·46·25	1·47·69	1·47·70	1·47·37
28·0	1·47·65	1·47·60	1·47·17	1·47·10					1·47·24	1·47·80	1·47·70	1·47·47
33·0	1·47·58	1·47·53	1·47·17	1·47·11	1·46·68	1·46·38	1·46·83	1·47·27	1·47·47	1·47·84	1·47·82	1·47·37
38·0	1·47·72	1·47·57	1·47·17	1·47·24					1·47·48	1·47·98	1·47·78	1·47·31
43·0	1·47·79	1·47·56	1·46·99	1·47·34					1·47·44	1·47·98	1·47·78	1·47·24
48·0	1·47·70	1·47·34	1·46·70	1·46·89					1·47·44	1·47·91	1·47·72	1·47·10
53·0	1·47·60	1·47·37	1·46·67	1·46·61					1·47·36	1·47·87	1·47·72	1·47·03
58·0	1·47·67	1·47·62	1·46·77	1·46·76					1·47·50	1·47·84	1·47·65	1·46·96

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′966	16′996	16′309	14′111	12′222	12′360	12′428	12′256	13′219	13′768	14′728	15′348	15′074
5·0	15·966	17·133	16·240	13·630	12·222					13·837	14·867	15·348	14·798
10·0	15·828	17·201	16·102	13·562	12·188					13·906	14·936	15·348	14·660
15·0	16·274	17·201	15·897	13·253	11·845					13·906	15·004	15·416	14·592
20·0	16·412	17·201	15·760	13·047	12·012					14·042	15·074	15·416	14·523
25·0	16·481	17·133	15·553	12·876	12·050					14·042	15·211	15·416	14·386
30·0	16·653	17·064	15·553	12·876	12·119	12·533	12·188	12·669	13·287	14·111	15·176	15·416	14·386
35·0	16·618	17·030	15·211	12·840	12·188					14·179	15·211	15·416	14·179
40·0	16·823	16·996	14·936	12·601	12·119					14·283	15·211	15·348	14·042
45·0	16·789	16·996	14·867	12·360	12·188					14·386	15·280	15·348	13·974
50·0	16·926	16·721	14·317	12·222	12·290					14·454	15·280	15·348	13·906
55·0	16·926	16·447	14·249	12·188	12·360					14·660	15·348	15·211	13·906

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·035	18·365	18·690	18·900	19·050	18·850	18·550	18·310	17·990	17·800	17·550	17·470	17·460
7·0	18·035	18·320	18·730	18·900	19·050					17·780	17·550	17·430	17·490
12·0	18·070	18·330	18·750	18·900	19·050					17·740	17·550	17·430	17·510
17·0	18·100	18·340	18·790	18·900	19·050					17·730	17·550	17·420	17·520
22·0	18·015	18·350	18·800	18·900	19·050					17·720	17·530	17·420	17·520
27·0	18·135	18·400	18·800	18·950	19·050					17·690	17·520	17·430	17·500
32·0	18·145	18·440	18·800	18·950	19·050	18·710	18·450	18·140	17·900	17·657	17·515	17·445	17·520
37·0	18·180	18·500	18·850	18·950	19·050					17·650	17·500	17·450	17·510
42·0	18·190	18·540	18·850	18·950	19·050					17·640	17·480	17·450	17·530
47·0	18·215	18·570	18·850	18·010	18·950					17·620	17·480	17·450	17·495
52·0	18·230	18·600	18·850	18·050	18·950					17·600	17·480	17·450	17·570
57·0	18·250	18·640	18·850	18·050	18·900					17·590	17·480	17·440	17·570
Therm.	83°4	84°0	85°0	86°0	86°0	86°8	87°0	87°2	87°3	87°3	87°0	86°3	85°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	11·12·40	10·26·60	8·36·60	7·35·40	8·32·60					10·32·00	11·12·20	11·01·00	9·48·30
8·0	11·14·90	10·20·30	8·36·60	7·35·40	8·36·85					10·32·00	11·12·20	10·43·20	9·46·30
13·0	11·14·90	10·13·20	8·24·90	7·35·40	8·41·40					10·34·80	11·12·20	10·43·20	9·41·10
18·0	11·14·90	10·07·80	8·18·10	7·40·65	8·41·40					10·37·80	11·12·20	10·43·20	9·41·10
23·0	11·14·90	9·46·70	8·18·10	7·49·65	8·48·50					10·41·40	11·12·20	10·35·00	9·31·50
28·0	11·09·90	9·38·10	8·10·30	8·05·00	9·48·50	9·26·25	8·26·50	9·10·15	10·00·40	10·45·00	11·09·40	10·35·00	9·31·50
33·0	11·09·90	9·31·90	8·10·30	8·10·50	9·08·85					10·45·00	11·09·40	10·29·00	9·31·50
38·0	11·01·00	9·20·50	8·00·10	8·10·50	9·08·85					10·49·00	11·09·40	10·29·00	9·24·00
43·0	11·01·00	9·20·50	8·00·10	8·16·05	9·16·15					11·02·70	11·09·40	10·21·30	9·24·00
48·0	10·42·60	9·09·40	7·41·45	8·16·05	9·16·15					11·07·40	11·09·40	10·15·80	9·16·60
53·0	10·36·60	9·02·30	7·41·45	8·16·05	9·16·05					11·10·25	11·01·00	10·10·20	9·18·60
58·0	10·36·60	8·45·70	7·41·45	8·28·30	9·15·15	9·12·90	8·37·50	9·31·50	10·27·20	11·10·25	11·01·00	10·08·40	9·18·60
Therm.	84°5	84°5	84°9	85°4	85°7	86°2	86°5	87°1	87°6	87°7	87°6	87°4	86°5

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	18′13	17′34	14′99	13′21	13′42	13′42	13′42	14′47	14′83	15′32	16′56	16′04
5·0	18·13	17·18	14·93	13·16					14·88	15·97	16·56	16·04
10·0	18·13	17·08	14·47	13·10					14·99	16·09	16·56	15·92
15·0	18·13	17·02	14·30	13·00					14·99	16·19	16·56	15·71
20·0	18·13	16·82	14·14	12·95					15·04	16·24	16·61	15·51
25·0	18·13	16·56	13·94	12·95					15·14	16·30	16·61	15·45
30·0	18·13	16·56	13·88	13·05	13·68	12·90	13·94	14·47	15·19	16·45	16·61	15·45
35·0	18·13	16·30	13·73	13·16					15·30	16·54	16·56	15·30
40·0	18·01	16·04	13·52	13·26					15·45	16·56	16·56	15·25
45·0	17·91	15·77	13·47	13·21					15·45	16·56	16·56	15·19
50·0	17·65	15·51	13·42	13·42					15·51	16·56	16·45	15·04
55·0	17·60	15·30	13·42	13·42					15·66	16·56	16·19	14·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	34·320	34·620	34·820	34·990	34·730	34·400	34·180	33·870	33·740	33·550	33·530	33·630
7·0	34·340	34·650	34·800	34·970					33·780	33·520	33·520	33·640
12·0	34·350	34·700	34·850	34·950					33·710	33·510	33·530	33·650
17·0	34·370	34·730	34·870	34·980					33·650	33·540	33·540	33·680
22·0	34·390	34·740	34·900	35·000					33·680	33·550	33·540	33·670
27·0	34·400	34·770	34·900	34·990					33·640	33·480	33·560	33·690
32·0	34·410	34·750	34·920	34·970	34·610	34·350	34·050	33·800	33·650	33·500	33·580	33·700
37·0	34·440	34·780	34·930	34·980					33·640	33·490	33·590	33·700
42·0	34·470	34·800	34·940	34·900					33·580	33·500	33·600	33·700
47·0	34·500	34·840	34·960	34·900					33·570	33·500	33·600	33·720
52·0	34·550	34·860	34·970	34·850					33·545	33·520	33·600	33·750
57·0	34·590	34·820	34·970	34·850					33·550	33·540	33·600	33·740
Therm.	80°4	80°0	83°7	84°3	85°7	86°0	86°5	86°8	86°2	85°9	84°4	84°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48′48	1°48′08	1°47′61	1°47′58	1°47′57	1°47′50	1°47′46	1°47′55	1°47′84	1°47′65	1°47′98	1°47′99
8·0	1·48·61	1·48·15	1·47·41	1·47·72					1·47·91	1·47·79	1·47·98	1·47·72
13·0	1·48·68	1·48·01	1·47·63	1·47·69					1·47·98	1·47·86	1·47·98	1·47·73
18·0	1·48·54	1·47·81	1·47·47	1·47·35					1·47·96	1·47·92	1·48·05	1·47·66
23·0	1·48·54	1·47·96	1·47·41	1·47·51					1·47·97	1·47·85	1·47·91	1·47·73
28·0	1·48·47	1·47·89	1·47·38	1·47·71					1·47·97	1·48·13	1·48·05	1·47·60
33·0	1·48·40	1·47·18	1·47·52	1·47·77	1·47·17	1·47·84	1·47·31	1·47·65	1·47·61	1·48·10	1·48·05	1·47·74
38·0	1·48·51	1·47·99	1·47·48	1·47·69					1·47·53	1·47·99	1·48·05	1·47·53
43·0	1·48·48	1·47·86	1·47·38	1·47·62					1·47·63	1·47·99	1·47·98	1·47·39
48·0	1·48·63	1·47·79	1·47·14	1·47·69					1·47·74	1·48·06	1·48·13	1·47·47
53·0	1·48·35	1·47·24	1·47·15	1·47·65					1·47·66	1·48·06	1·48·13	1·47·54
58·0	1·48·22	1·47·46	1·47·40	1·47·57					1·47·78	1·47·98	1·47·99	1·47·68

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′485	16′515	16′172	15′348	14′249	13′157	12′326	12′635	12′273	13′150			
5·0	15·623	16·515	16·102	15·211	14·008					13·150			
10·0	15·760	16·515	15·966	15·280	13·906					13·219			
15·0	15·691	16·447	15·760	15·211	13·906					13·355			
20·0	15·897	16·447	15·760	15·004	13·837					13·459			
25·0	15·966	16·378	15·623	14·910	13·562					13·562			
30·0	16·034	16·378	15·623	14·936	13·562	12·703	12·533	12·533	12·840	13·734			
35·0	16·034	16·309	15·623	14·798	13·389					13·837			
40·0	16·172	16·309	15·553	14·592	13·321					13·837			
45·0	16·309	16·309	15·553	14·592	13·253					13·906			
50·0	16·447	16·309	15·450	14·283	13·253					13·906			
55·0	16·378	16·309	15·348	14·249	13·219					13·940			

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	16·595	16·750	17·300	17·700	17·950	17·800	17·750	17·495	17·240	16·660			
7·0	16·600	16·800	17·330	17·745	17·900					16·650			
12·0	16·555	16·900	17·400	17·710	17·900					16·640			
17·0	16·510	16·990	17·382	17·700	17·950					16·600			
22·0	16·570	17·060	17·360	17·750	17·950					16·565			
27·0	16·465	17·090	17·400	17·850	17·950					16·540			
32·0	16·470	17·135	17·500	17·850	17·910	17·750	17·650	17·470	16·700	16·515			
37·0	16·550	17·195	17·500	17·900	17·920					16·510			
42·0	16·570	17·255	17·600	17·925	17·900					16·500			
47·0	16·675	17·300	17·600	17·950	17·850					16·530			
52·0	16·735	17·280	17·650	17·950	17·800					16·565			
57·0	16·720	17·320	17·675	18·000	17·750					16·575			
Therm.	84°0	84°8	86°9	87°0	87°5	87°6	88°0	88°2	88°6	88°5			

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d			
3·0	14·31·80	14·24·80	13·23·00	11·34·25	11·13·60					13·27·40			
8·0	14·31·80	14·17·80	13·11·70	11·34·25	11·01·75					13·31·20			
13·0	14·31·80	14·17·30	13·02·40	11·34·25	11·01·75					13·35·90			
18·0	14·31·80	14·03·00	12·43·80	11·26·20	10·45·40					13·40·85			
23·0	14·31·80	14·03·00	12·43·80	11·26·20	11·11·85					13·45·80			
28·0	14·31·80	14·03·00	12·28·90	11·18·75	11·11·85	11·44·30	12·28·00	12·34·25	13·17·55	13·45·80			
33·0	14·31·80	13·43·60	12·28·90	11·18·75	11·11·85					14·01·50			
38·0	14·31·80	13·33·70	12·12·75	11·18·75	11·21·00					14·01·50			
43·0	14·31·80	13·33·70	12·12·75	11·18·75	11·21·00					14·03·35			
48·0	14·31·80	13·33·70	12·00·70	11·18·75	11·21·00					14·03·35			
53·0	14·24·80	13·33·70	11·42·75	11·13·60	11·21·00					14·03·35			
58·0	14·24·80	13·23·00	11·42·75	11·13·60	11·29·50	12·10·20	12·32·60	12·44·40	13·23·60	14·03·35			
Therm.	85°5	85°4	85°8	86°5	87°0	87°0	87°5	88°2	88°8	89°4			

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′43	17′02	16′09	14′99	13′94	13′42	13′52	13′26	13′94	14′99	15′51	15′66
5·0	17·43	16·97	16·04	14·99					14·20	14·99	15·61	15·56
10·0	17·43	16·82	16·04	14·93					14·30	14·99	15·61	15·56
15·0	17·34	16·82	15·97	14·78					14·30	15·04	15·61	15·45
20·0	17·39	16·76	15·82	14·62					14·40	15·19	15·61	15·30
25·0	17·28	16·61	15·77	14·47					14·47	15·25	15·66	15·25
30·0	17·18	16·56	15·66	14·47	13·42	13·42	13·26	13·94	14·67	15·25	15·66	15·19
35·0	17·13	16·56	15·61	14·40					14·78	15·25	15·71	15·04
40·0	17·13	16·45	15·51	14·25					14·88	15·25	15·82	14·99
45·0	17·13	16·40	15·35	14·14					14·93	15·45	15·87	14·99
50·0	17·13	16·24	15·19	14·09					14·99	15·51	15·87	14·99
55·0	17·08	16·19	15·19	13·99					14·99	15·51	15·71	14·93

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	32·400	32·890	33·200	33·490	33·320	33·250	32·980	33·880	32·250	32·340	32·090	32·030
7·0	32·470	32·900	33·250	33·430					32·300	32·350	32·070	32·050
12·0	32·560	32·930	33·240	33·450					32·340	32·400	32·100	32·020
17·0	34·640	32·900	33·270	33·460					32·330	32·350	32·100	32·070
22·0	32·700	32·900	33·340	33·500					32·270	32·340	32·050	32·160
27·0	32·740	32·920	33·370	33·490					32·250	32·300	32·070	32·180
32·0	32·760	32·950	33·400	33·470	33·300	33·100	33·095	32·340	32·230	32·250	32·100	32·200
37·0	32·800	32·980	33·430	33·410					32·250	32·200	32·080	32·200
42·0	32·900	32·980	33·470	33·450					32·250	32·200	32·070	32·200
47·0	32·940	33·000	33·500	33·380					32·250	32·170	32·040	32·200
52·0	32·950	33·080	33·550	33·290					32·320	32·150	32·020	32·200
57·0	32·890	33·140	33·540	33·300					32·300	32·100	32·000	32·200
Therm.	81°9	82°4	83°8	85°7	86°0	87°2	88°0	88°5	87°8	86°4	86°2	85°7

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48′28	1°48′08	1°48′13	1°47′75	1°47′65	1°47′65	1°47′42	1°47′48	1°47′65			
8·0	1·48·26	1·48·16	1·47·99	1·47·64					1·47·65			
13·0	1·48·15	1·47·17	1·48·06	1·47·69					1·47·58			
18·0	1·48·08	1·48·10	1·47·99	1·47·84					1·47·75			
23·0	1·48·22	1·48·25	1·47·92	1·47·91					1·47·92			
28·0	1·48·15	1·48·11	1·47·83	1·47·63					1·47·95			
33·0	1·48·15	1·48·11	1·47·88	1·47·78	1·47·63	1·47·60	1·47·74		1·48·06			
38·0	1·48·08	1·48·25	1·47·72	1·47·61					1·47·91			
43·0	1·48·08	1·48·18	1·47·66	1·47·54					1·47·98			
48·0	1·48·08	1·48·18	1·47·80	1·47·61					1·47·98			
53·0	1·48·22	1·48·23	1·47·49	1·47·61					1·47·98			
58·0	1·48·22	1·48·13	1·47·50	1·47·58					1·47·87			

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·966	16·960	17·064	15·623	13·562	11·569	11·038	11·293	11·845	12·944	14·076	14·728	14·592
5·0	15·966	17·064	17·064	15·382	13·562					13·219	14·179	14·867	14·523
10·0	16·447	17·064	17·064	15·021	13·372					13·287	14·179	14·936	14·454
15·0	16·378	17·064	16·926	14·936	12·876					13·237	14·179	14·936	14·386
20·0	16·378	17·201	16·789	14·936	12·876					13·425	14·249	14·936	14·317
25·0	16·378	17·270	16·653	14·936	12·876					13·425	14·249	15·004	14·283
30·0	16·584	17·270	16·447	14·936	12·669	11·088	11·259	10·088	12·533	13·425	14·386	15·004	14·249
35·0	16·653	17·339	16·240	14·317	12·256					13·562	14·592	15·004	14·076
40·0	16·584	17·339	16·240	14·249	12·183					13·802	14·928	15·004	14·042
45·0	16·687	17·201	15·897	14·249	12·188					13·905	14·728	14·936	13·906
50·0	16·789	17·201	15·623	14·179	12·015					13·974	14·728	14·798	13·837
55·0	16·858	17·201	15·623	13·562	12·015					14·076	14·728	14·728	13·837

LARGE HORIZONTAL MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·160	17·255	17·290	17·650	18·100	18·150	17·600	17·507	17·380	17·065	16·820	16·525	16·610
7·0	17·200	17·275	17·390	17·650	18·105					17·030	16·790	16·470	16·620
12·0	17·220	17·300	17·430	17·750	18·100					17·065	16·760	16·450	16·700
17·0	17·260	17·300	17·450	17·752	18·100					17·000	16·760	16·465	16·700
22·0	17·240	17·300	17·470	17·800	18·140					17·000	16·765	16·450	16·690
27·0	17·295	17·300	17·540	17·850	18·200					17·015	16·720	16·470	16·700
32·0	17·290	17·300	17·560	17·900	18·200	18·050	17·505	17·475	17·375	16·980	16·675	16·520	16·660
37·0	17·290	17·265	17·550	17·950	18·200					16·890	16·650	16·530	16·670
42·0	17·260	17·252	17·550	17·950	18·200					16·850	16·630	16·550	16·675
47·0	17·260	17·290	17·550	18·050	18·200					16·850	16·610	16·590	16·780
52·0	17·245	17·250	17·540	18·050	18·200					16·850	16·585	16·590	16·730
57·0	17·250	17·250	17·550	18·100	18·200					16·850	16·550	16·610	16·720
Therm.	85°0	85°0	85°6	85°9	86°0	86°3	87°0	87°2	87°5		88°1	87°7	86°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	10·28·70	10·23·40	8·47·70	7·37·80	6·36·90					9·02·40	9·38·50	10·04·00	9·30·10
8·0	10·28·70	10·14·65	8·47·70	7·34·00	6·36·90					9·10·90	9·38·50	10·04·00	9·30·10
13·0	10·23·40	10·14·65	8·32·90	7·34·00	6·36·90					9·21·35	9·38·50	10·01·00	9·30·10
18·0	10·23·40	10·14·65	8·26·20	7·21·35	6·42·80					9·21·35	9·42·60	10·04·00	9·30·10
23·0	10·23·40	10·08·10	8·18·90	7·14·55	6·42·80					9·21·35	9·42·60	10·04·00	9·30·10
28·0	10·23·40	9·48·90	8·18·90	7·14·55	6·42·80	6·46·20	7·16·50	7·12·30	8·21·75	9·21·35	9·45·35	10·04·00	9·30·10
33·0	10·23·40	9·48·90	8·07·20	7·14·55	6·42·80					9·25·15	9·45·35	9·43·00	9·30·10
38·0	10·23·40	9·30·70	8·05·25	7·06·50	6·42·90					9·30·90	10·04·00	9·43·00	9·30·10
43·0	10·23·40	9·28·70	8·05·25	6·46·90	6·42·80					9·34·90	10·04·00	9·36·30	9·22·80
48·0	10·23·40	9·23·30	7·45·35	6·46·90	6·34·40					9·34·90	10·04·00	9·36·30	9·22·80
53·0	10·23·40	9·18·50	7·45·35	6·36·90	6·34·40					9·34·90	10·04·00	9·36·30	9·22·80
58·0	10·23·40	9·08·70	7·37·80	6·36·90	6·34·40	7·16·50	7·16·50	8·04·60	8·42·35	9·34·90	10·04·00	9·30·10	9·22·80
Therm.	86°0	85°5	85°6	85°5	85°5	86°0	86°5	86°9	87°6	88°2	88°6	88°4	87°1

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′60	17′36	16′19	14′30	12′37	11′85	12′000	12′90	13′78	14′73	15′51	15′30
5·0	17·65	17·30	16·04	14·09					13·88	14·78	15·51	15·19
10·0	17·75	17·75	15·97	13·94					13·94	14·78	15·51	15·19
15·0	17·86	17·60	15·71	13·83					14·04	14·83	15·51	15·04
20·0	17·86	17·43	15·51	13·62					14·14	14·99	15·51	14·99
25·0	17·91	17·34	15·51	13·42					14·09	15·04	15·51	14·93
30·0	17·96	17·08	15·45	13·31	11·85	11·90	11·85	13·42	14·14	15·19	15·51	14·73
35·0	18·06	17·02	15·25	13·16					14·25	15·25	15·61	14·73
40·0	18·13	16·76	14·99	12·95					14·40	15·30	15·66	14·62
45·0	17·86	16·56	14·93	12·90					14·47	15·30	15·51	14·47
50·0	17·91	16·56	14·67	12·68					14·62	15·35	15·51	14·47
55·0	17·96	16·50	14·52	12·42					14·67	15·40	15·45	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·200	33·260	33·730	34·200	34·240	33·600	33·400	33·250	32 960	32·850	32·650	32·890
7·0	33·200	33·330	33·750	34·240					32·950	32·850	32·620	32·950
12·0	33·230	33·400	33·800	34·230					32·940	32·840	32·550	32·950
17·0	33·240	33·450	33·850	34·220					32·940	32·810	32·560	32·940
22·0	33·240	33·520	33·890	34·250					32·930	32·830	32·590	32·970
27·0	33·240	33·530	33·940	34·250					33·020	32·780	32·630	32·990
32·0	33·230	33·600	33·980	34·270	34·150	33·650	33·495	33·300	33·000	32·740	32·670	33·020
37·0	33·200	33·600	34·000	34·270					32·930	32·780	32·700	33·070
42·0	33·230	33·630	34·020	34·230					32·900	32·680	32·720	33·100
47·0	33·220	33·640	34·090	34·280					32·870	32·730	32·790	33·130
52·0	33·240	33·640	34·160	34·250					32·890	32·700	32·850	33·100
57·0	33·240	33·650	34·200	34·240					32·900	32·690	32·850	33·100
Therm.	82°1	82°3	83°6	83°7	84°0	84°2	85°8	86°1	86°2	86°1	85°8	84°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′29	1°47′25	1°46′96	1°46′34	1°45′93	1°45′45	1°45′93	1°46′07	1°46′15	1°46′86	1°46′50	1°46′36
8·0	1·47·39	1·47·25	1·46·72	1·46·48					1·46·43	1·46·81	1·46·64	1·46·43
13·0	1·47·39	1·47·25	1·46·50	1·46·29					1·46·50	1·46·81	1·46·71	1·46·36
18·0	1·47·39	1·47·12	1·46·57	1·45·95					1·46·36	1·46·81	1·46·71	1·46·30
23·0	1·47·60	1·47·11	1·46·57	1·46·09					1·46·49	1·46·74	1·46·67	1·46·38
28·0	1·47·46	1·46·98	1·46·71	1·46·09					1·46·34	1·46·74	1·46·63	1·46·48
33·0	1·47·53	1·46·92	1·46·85	1·46·17	1·45·45	1·46·62	1·45·75	1·46·31	1·46·36	1·46·73	1·46·63	1·46·59
38·0	1·47·53	1·46·71	1·46·23	1·45·90					1·46·48	1·46·65	1·46·63	1·46·57
43·0	1·47·39	1·46·86	1·46·45	1·46·12					1·46·58	1·46·64	1·46·63	1·46·67
48·0	1·47·39	1·46·80	1·46·74	1·46·26					1·46·69	1·46·64	1·46·71	1·46·69
53·0	1·47·39	1·46·81	1·46·81	1·46·24					1·46·65	1·46·50	1·46·57	1·46·62
58·0	1·47·39	1·46·96	1·46·34	1·46·24					1·46·85	1·46·50	1·46·50	1·46·62

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	16′789	17′339	16′584	15′280	13′906	13′047	12′944	13′425	14′111	14′317	14′317	14′396
5·0	15·623	16·789	17·270	16·412	15·245					14·179	14·386	14·317	14·317
10·0	15·691	16·858	17·304	16·309	15·108					14·145	14·386	14·249	14·179
15·0	15·966	16·868	17·235	16·309	14·867					14·179	14·454	14·249	14·179
20·0	16·240	16·996	17·064	16·291	14·694					14·249	14·454	14·317	14·111
25·0	16·274	16·996	16·996	16·240	14·762					14·249	14·454	14·317	14·042
30·0	16·240	17·133	16·996	16·068	14·523	13·219	13·047	12·876	13·906	14·249	14·454	14·249	14·042
35·0	16·274	17·201	16·926	16·000	14·420					14·283	14·523	14·249	13·974
40·0	16·343	17·235	16·926	15·897	14·317					14·317	14·454	14·249	13·974
45·0	16·481	17·270	16·823	15·794	14·179					14·249	14·454	14·249	13·940
50·0	16·447	17·270	16·926	15·623	14·111					14·317	14·454	14·386	13·906
55·0	16·721	17·304	16·755	15·314	13·974					14·249	14·454	14·454	13·906

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·330	17·325	17·670	17·825	17·705	17·590	17·450	17·390	17·140	17·030	16·890	16·900	16·830
7·0	17·325	17·400	17·690	17·810	17·700					17·020	16·900	16·900	16·850
12·0	17·320	17·410	17·730	17·800	17·700					17·015	16·900	16·880	16·850
17·0	17·300	17·480	17·770	17·800	17·700					17·010	16·890	16·880	16·850
22·0	17·300	17·510	17·770	17·750	17·710					17·020	16·850	16·890	16·870
27·0	17·310	17·585	17·840	17·750	17·650					17·035	16·820	16·890	16·770
32·0	17·300	17·600	17·950	17·650	17·650	17·600	17·440	17·250	17·060	17·010	16·815	16·940	16·800
37·0	17·250	17·610	17·850	17·615	17·650					17·010	16·840	16·900	16·820
42·0	17·230	17·635	17·850	17·650	17·655					17·000	16·840	16·920	16·850
47·0	17·295	17·655	17·850	17·650	17·650					17·000	16·860	16·880	16·850
52·0	17·290	17·730	17·850	17·690	17·650					16·990	16·870	16·860	16·850
57·0	17·315	17·685	17·850	17·700	17·600					16·950	16·880	16·850	16·850
Therm.	84°4	84°8	85°2	86°7	87°5	88°0	88°0	88°2	88°2	88°3	88°0	87°5	86°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16 h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	12·23·50	12·27·20	11·41·20	10·35·90	10·00·45					12·02·30	12·14·20	12·11·20	12·16·30
8·0	12·32·50	12·21·30	11·31·40	10·27·50	10·00·45					12·02·30	12·14·20	12·11·20	12·11·80
13·0	12·32·50	12·21·30	11·24·20	10·27·50	10·00·45					12·02·30	12·14·20	12·11·20	12·10·00
18·0	12·39·30	12·21·30	11·16·20	10·27·50	10·00·45					12·07·50	12·14·20	12·11·20	12·15·10
23·0	12·32·00	12·21·30	11·10·00	10·19·40	10·00·45					12·07·50	12·14·20	12·11·20	12·09·50
28·0	12·27·20	12·15·60	11·04·90	10·19·40	10·00·45	9·13·65	10·11·50	10·42·60	11·29·40	12·07·50	12·11·20	12·11·20	12·09·50
33·0	12·27·20	12·15·60	11·04·90	10·19·40	10·00·45					12·10·20	12·11·20	12·11·20	12·00·70
38·0	12·27·20	12·11·60	10·41·60	10·19·40	10·00·45					12·10·20	12·11·20	12·11·20	12·00·70
43·0	12·27·20	12·05·20	10·41·60	10·08·50	10·00·45					12·10·20	12·11·20	12·11·20	12·00·70
48·0	12·27·20	11·48·30	10·41·60	10·08·50	10·00·45					12·06·70	12·11·20	12·16·30	12·00·70
53·0	12·27·20	11·41·20	10·41·60	10·08·50	9·43·65					12·06·70	12·11·20	12·16·30	12·00·70
58·0	12·27·20	11·41·20	10·35·90	10·00·45	9·13·65	10·10·40	10·22·40	11·18·05	12·00·50	12·06·70	12·11·20	12·16·30	12·00·70
Therm.	85°5	85°3	85°4	86°0	87°0	87°6	88°0	88°3	88°7	89°0	85°9	88°5	87°5

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'60	18'13	17'39	16'14	14'99	13'94	13'88	14'47	15'09	15'25	15'25	15'40
5·0	17·60	18·13	17·34	16·04					15·09	15·30	15·25	15·30
10·0	17·60	18·13	17·28	16·04					15·14	15·30	15·19	15·25
15·0	17·60	18·06	17·08	15·82					15·14	15·25	15·19	15·19
20·0	17·86	17·96	17·08	15·66					15·19	15·30	15·19	14·99
25·0	17·86	17·86	17·08	15·51					15·25	15·35	15·19	14·99
30·0	17·91	17·80	17·02	15·51	14·47	13·94	13·94	14·88	15·30	15·45	15·14	14·99
35·0	17·96	17·70	16·92	15·40					15·25	15·30	15·14	14·99
40·0	18·06	17·65	16·87	15·25					15·25	15·30	15·14	14·99
45·0	18·13	17·60	16·76	15·14					15·25	15·30	15·19	14·99
50·0	18·13	17·60	16·56	14·99					15·25	15·35	15·25	14·93
55·0	18·13	17·48	16·35	14·99					15·25	15·25	15·40	14·78

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·120	33·400	33·400	33·300	32·970	32·850	32·810	32·600	32·500	32·580	32·680	32·620
7·0	33·130	33·390	33·400	33·320					32·560	32·540	32·690	32·640
12·0	33·160	33·400	33·400	33·300					32·600	32·590	32·700	32·650
17·0	33·230	33·420	33·380	33·270					32·600	32·600	32·700	32·640
22·0	33·290	33·450	33·360	33·240					32·620	32·550	32·700	32·660
27·0	33·330	33·490	33·300	33·200					32·600	32·550	32·700	32·680
32·0	33·350	33·470	33·200	33·160	32·900	32·825	32·700	32·600	32·600	32·560	32·700	32·690
37·0	33·360	33·480	33·200	33·100					32·600	32·550	32·700	32·700
42·0	33·390	33·450	33·200	33·130					32·600	32·560	32·700	32·690
47·0	33·400	33·450	33·200	33·090					32·600	32·590	32·650	32·730
52·0	33·430	33·470	33·240	33·050					32·600	32·650	32·680	32·750
57·0	33·400	33·430	33·260	32·980					32·580	32·680	32·670	32·780
Therm.	82°0	82°2	83°9	84°4	86°2	88°0	88°4	88°5	88°0	87°8	86°2	85°7

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0												
8·0												
13·0												
18·0												
23·0												
28·0					Instrument out of Order.							
33·0												
38·0												
43·0												
48·0												
53·0												
58·0												

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′553	15′828	15′416	14′283	12′738	11′845	11′430	11′501	12′119	13′150	13′974	14′523	14′042
5·0	15·553	15·897	15·416	14·076	12·635					13·150	14·008	14·523	13·974
10·0	15·623	15·760	15·280	13·906	12·635					13·287	14·111	14·523	13·974
15·0	15·628	15·691	15·142	13·906	12·703					13·425	14·076	14·488	13·906
20·0	15·623	15·691	15·074	13·906	12·533					13·562	14·145	14·488	13·906
25·0	15·862	15·691	14·936	13·871	12·533					13·664	14·249	14·454	13·802
30·0	15·691	15·691	14·798	13·459	12·222	11·569	11·501	11·913	12·533	13·664	14·317	14·454	13·768
35·0	15·725	15·623	14·660	13·321	12·188					13·760	14·386	14·386	13·700
40·0	15·794	15·623	14·626	13·219	11·913					13·906	14·454	14·317	13·630
45·0	15·828	15·623	14·592	13·219	12·188					13·906	14·488	14·317	13·630
50·0	15·897	15·553	14·592	13·047	12·188					13·906	14·523	14·179	13·493
55·0	15·862	15·519	14·351	13·047	12·188					13·906	14·523	14·111	13·459

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·300	17·570	17·890	18·050	18·250	18·300	18·250	18·040	17·760	17·420	17·200	16·940	16·850
7·0	17·300	17·610	17·890	18·090	18·250					17·400	17·140	16·920	16·870
12·0	17·315	17·650	17·890	18·090	18·250					17·400	17·120	16·910	16·840
17·0	17·360	17·650	17·915	18·100	18·250					17·390	17·110	16·890	16·840
22·0	17·350	17·700	17·945	18·100	18·300					17·380	17·110	16·890	16·850
27·0	17·450	17·750	17·950	18·100	18·300					17·360	17·100	16·880	16·810
32·0	17·440	17·750	17·970	18·125	18·300	18·342	18·150	17·895	57·560	17·330	17·050	16·870	16·810
37·0	17·450	17·760	17·980	18·150	18·300					17·300	17·020	16·860	16·810
42·0	17·460	17·782	18·000	18·175	18·300					17·290	17·000	16·880	16·910
47·0	17·480	17·800	18·010	18·200	18·300					17·275	16·990	16·850	16·810
52·0	17·500	17·810	18·010	18·240	18·300					17·220	16·990	16·810	16·840
57·0	17·550	17·845	18·050	18·250	18·300					17·210	16·950	16·810	16·820
Therm.	86°0	86°4	87°2	88°0	89°0	89°5	90°0	90°4	90°6	90°6	90°6	90°0	89°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d.	t d	t d	t d	t d	t d.	t d	t d	t d
M. S.													
3·0	14·11·20	13·30·70	12·26·80	11·23·60	10·40·50					14·13·10	14·46·10	14·44·90	14·13·80
8·0	14·11·20	13·30·70	12·26·80	11·23·60	10·40·50					14·20·25	15·01·90	14·44·90	14·04·30
13·0	14·05·90	13·21·70	12·17·00	11·23·60	10·40·50					14·23·05	15·01·90	14·44·90	14·04·30
18·0	14·05·90	13·21·70	12·10·00	11·23·60	10·42·15					14·31·40	15·01·90	14·18·20	14·04·30
23·0	14·05·90	13·21·70	11·49·60	11·23·60	10·42·15					14·36·50	15·01·90	14·18·20	14·04·30
28·0	14·05·90	13·13·00	11·49·60	11·23·60	11·05·85	11·18·15	11·36·70	12·41·40	13·16·85	14·36·50	15·01·90	14·18·20	14·04·30
33·0	14·05·90	13·13·00	11·41·20	11·10·60	11·05·85					14·40·10	15·07·30	14·13·70	14·04·30
38·0	14·05·90	13·07·00	11·41·20	11·10·60	11·05·85					14·40·10	15·07·30	14·13·70	14·04·30
43·0	13·46·40	12·48·50	11·31·00	11·10·60	11·05·85					14·40·10	15·07·30	14·13·70	14·04·30
48·0	13·39·40	12·48·50	11·31·00	10·33·70	10·45·10					14·40·10	15·07·30	14·21·40	13·47·50
53·0	13·39·40	12·48·50	11·23·60	10·33·70	10·45·10					14·46·10	15·07·30	14·21·40	13·47·50
58·0	13·30·70	12·32·80	11·23·60	10·40·50	11·11·15	11·23·20	12·18·90	13·06·30	14·07·50	14·46·10	15·07·30	14·13·20	13·47·50
Therm.	86°6	86°5	87°0	87°2	88·1	88°5	89°2	89°8	90°2	90°7	90°7	90°4	89°5

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′56	16′04	14′99	13′68	12′90	12′37	12′37	13′00	13′99	14′99	15′30	14′99
5·0	16·56	16·04	14·88	13·52					14·09	14·99	15·35	14·99
10·0	16·56	15·97	14·78	13·47					14·14	14·99	15·30	14·88
15·0	16·56	15·92	14·73	13·42					14·35	15·04	15·30	14·78
20·0	16·56	15·82	14·62	13·42					14·47	15·19	15·25	14·62
25·0	16·56	15·66	14·47	13·26					14·62	15·19	15·25	14·47
30·0	16·56	15·51	14·40	13·00	13·37	12·37	12·90	13·47	14·73	15·25	15·19	14·47
35·0	16·50	15·45	14·25	12·90					14·73	15·25	15·09	14·40
40·0	16·45	15·30	13·99	12·90					14·78	15·25	14·99	14·40
45·0	16·30	15·25	13·94	12·90					14·88	15·30	14·99	14·35
50·0	16·30	15·14	13·94	12·90					14·99	15·30	14·99	14·35
55·0	16·19	14·99	13·83	12·90					14·99	15·35	14·99	14·20

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·600	33·680	33·900	33·970	33·970	33·850	33·600	33·300	32·940	32·750	32·640	32·620
7·0	33·600	33·720	33·870	33·990					32·950	32·740	32·630	32·650
12·0	33·600	33·760	33·850	33·980					32·980	32·750	32·600	32·640
17·0	33·620	33·790	33·820	34·000					33·000	32·700	32·600	32·700
22·0	33·600	33·800	33·800	34·050					32·990	32·680	32·600	32·700
27·0	33·630	33·800	33·800	34·000					32·930	32·700	32·600	32·700
32·0	33·650	33·840	33·800	34·050	34·000	33·750	33·490	33·090	32·900	32·700	32·620	32·700
37·0	33·680	33·860	33·820	34·040					32·850	32·700	32·640	32·700
42·0	33·680	33·890	33·900	34·060					32·820	32·700	32·650	32·730
47·0	33·670	33·900	33·930	34·080					32·825	32·680	32·630	32·750
52·0	33·650	33·900	33·970	34·030					32·800	32·700	32·600	32·780
57·0	33·650	33·920	33·970	34·000					32·780	32·650	32·600	32·800
Therm.	83°7	84°0	84°3	85°9	86°4	88°0	89°6	89°6	89°7	89°5	88°3	87°9

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°15′91	2°15′64	2°15′94	2°15′73	2°15′37	2°15′82	2°15′60	2°15′50	2°15′96	2°15′78	2°16′04	2°15′56
8·0	2·15·98	2·15·64	2·15·74	2·15·60					2·15·82	2·15·82	2·16·04	2·15·63
13·0	2·15·84	2·15·50	2·15·72	2·15·60					2·15·67	2·15·77	2·16·04	2·15·63
18·0	2·15·77	2·15·51	2·15·72	2·15·80					2·15·67	2·15·74	2·16·01	2·15·57
23·0	2·15·77	2·15·58	2·15·86	2·15·63					2·15·65	2·15·81	2·16·01	2·15·52
28·0	2·15·77	2·15·59	2·15·96	2·15·77					2·15·61	2·15·77	2·15·97	2·15·61
33·0	2·15·77	2·15·60	2·15·55	2·15·46	2·15 96	2·16·08	2·15·29	2·15·63	2·15·61	2·15·84	2·16·07	2·15·58
38·0	2·15·70	2·15·60	2·15·56	2·15·57					2·15·57	2·15·91	2·15·91	2·15·65
43·0	2·15·70	2·15·86	2·15·60	2·15·29					2·15·72	2·15·97	2·15·84	2·15·58
48·0	2·15·70	2·15·96	2·15·89	2·15·71					2·15·72	2·16·01	2·15·87	2·15·58
53·0	2·15·63	2·15·96	2·16·01	2·15·71					2·15·72	2·16·04	2·15·70	2·15·58
58·0	2·15·60	2·15·87	2·16·01	2·15·71					2·15·72	2·16·04	2·15·63	2·15·55

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′074	15′623	15′142	14′728	14′592	13′562	13′150	13′425	13′355	13′287	13′287	13′768	13′562
5·0	15·348	15·485	15·074	14·592	14·557					13·287	13·355	13·768	13·562
10·0	15·348	15·623	15·004	14·626	14·523					13·257	13·355	13·802	13·425
15·0	15·314	15·553	15·004	14·728	14·283					13·287	13·493	13·768	13·425
20·0	15·416	15·485	14·936	14·694	14·249					13·355	13·493	13·768	13·425
25·0	15·623	15·553	14·936	14·694	14·249					13·355	13·630	13·768	13·493
30·0	15·485	15·416	14·936	14·626	14·249	13·219	13·219	13·425	13·493	13·219	13·630	13·768	13·493
35·0	15·623	15·348	14·867	14·694	14·008					13·219	13·630	13·837	13·493
40·0	15·587	15·348	14·867	14·626	13·906					13·219	13·630	13·768	13·493
45·0	15·623	15·485	14·936	14·626	13·906					13·219	13·700	13·768	13·562
50·0	15·416	15·142	14·901	14·592	13·906					13·253	13·700	13·768	13·562
55·0	15·553	15·142	14·867	14·592	13·596					13·287	13·700	13·768	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·540	17·520	17·570	17·950	18·150	18·100	18·050	17·860	17·610	17·390	17·200	17·050	17·050
7·0	17·550	17·425	17·580	18·000	18·150					17·380	17·190	17·040	17·040
12·0	17·505	17·490	17·620	18·002	18·170					17·340	17·150	17·060	16·950
17·0	17·460	17·440	17·700	18·050	18·150					17·300	17·140	17·050	16·910
22·0	17·500	17·370	17·745	18·050	18·190					17·280	17·100	17·050	16·900
27·0	17·505	17·375	17·780	18·050	18·227					17·260	17·090	17·065	16·940
32·0	17·490	17·490	17·800	18·050	18·120	18·150	18·000	17·820	17·500	17·280	17·090	17·070	16·955
37·0	17·555	17·500	17·820	18·075	18·100					17·260	17·090	17·070	16·970
42·0	17·525	17·610	17·850	18·100	18·100					17·250	17·100	17·050	16·970
47·0	17·475	17·600	17·900	18·000	18·100					17·230	17·090	17·050	16·980
52·0	17·480	17·580	17·900	18·100	18·100					17·220	17·090	17·030	16·960
57·0	17·480	17·580	17·900	18·110	18·100					17·210	17·060	17·050	16·950
Therm.	85°5	85°4	86°0	87°0	87°5	87°5	88°0	88°0	88°5	88°9	88°0	87°7	87°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	14·34·00	13·37·80	13·10·20	12·13·50	11·48·90					13·00·55	13·24·80	13·21·10	13·05·50
8·0	14·18·50	13·37·80	13·10·20	12·13·50	11·48·90					13·04·85	13·27·55	13·21·10	12·45·60
13·0	14·18·50	13·37·80	13·10·20	12·13·50	11·48·90					13·04·85	13·27·65	13·21·10	12·45·60
18·0	14·18·50	13·37·80	13·10·20	12·13·50	11·48·90					13·04·85	13·27·65	13·21·10	12·45·60
23·0	14·18·50	13·29·30	12·46·30	12·13·50	11·48·90					13·10·10	13·27·65	13·21·10	13·05·40
28·0	14·10·70	13·29·30	12·46·30	12·04·50	11·48·90	12·07·00	12·19·40	12·34·80	12·34·80	13·10·10	13·27·65	13·14·10	13·05·40
33·0	14·10·70	13·19·90	12·46·30	12·04·50	11·48·90					13·12·80	13·27·65	13·14·40	13·05·40
38·0	13·49·30	13·19·90	12·46·30	12·04·50	12·17·25					13·15·80	13·25·20	13·14·40	13·05·40
43·0	13·41·10	13·19·90	12·36·75	12·04·50	12·17·25					13·15·80	13·21·10	13·14·10	13·05·40
48·0	13·41·10	13·10·20	12·36·75	12·04·50	12·17·25					13·27·65	13·21·10	13·14·10	13·05·40
53·0	13·37·80	13·10·20	12·29·65	12·04·50	12·17·25					13·27·65	13·21·10	13·14·10	13·05·40
58·0	13·37·80	13·10·20	12·29·65	11·48·90	12·07·00	12·10·00	12·34·80	12·34·80	13·00·55	13·24·80	13·21·10	13·05·50	13·05·40
Therm.	86°9	85°6	85°6	86°0	86°5	86°5	87°0	87°0	87°7	88°2	87°3	87°0	86°5

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′19	16′04	15′51	15′30	14′47	13′94	14′47	14′47	14′25	14′20	14′67	14′47
5·0	16·30	15·97	15·51	15·25					14·20	14·25	14·67	14·47
10·0	16·45	15·92	15·51	15·25					14·14	14·30	14·47	14·47
15·0	16·45	15·92	15·51	15·14					14·20	14·35	14·78	14·47
20·0	16·40	15·92	15·56	14·99					14·20	14·40	14·67	14·47
25·0	16·35	15·87	15·51	14·99					14·14	14·47	14·73	14·47
30·0	16·35	15·87	15·51	14·99	13·94	13·94	14·47	14·35	14·14	14·47	14·47	14·47
35·0	16·30	15·87	15·45	14·99					14·14	14·47	14·47	14·47
40·0	16·30	15·82	15·51	14·83					14·14	14·47	14·52	14·47
45·0	16·30	15·71	15·51	14·73					14·14	14·52	14·57	14·47
50·0	16·04	15·66	15·45	14·67					14·20	14·67	14·62	14·47
55·0	16·09	15·56	15·40	14·52					14·20	14·73	14·67	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·000	32·900	33·250	33·560	33·490	33·400	33·350	32·860	32·800	32·720	32·600	32·500
7·0	32·980	32·940	33·300	33·550					32·830	32·700	32·570	32·500
12·0	32·950	32·920	33·350	33·480					32·840	32·690	32·550	32·470
17·0	32·900	32·980	33·345	33·450					32·830	32·680	32·560	32·450
22·0	32·900	33·040	33·390	33·490					32·800	32·650	32·540	32·430
27·0	32·850	33·060	33·400	33·560					32·780	32·680	32·550	32·400
32·0	32·850	33·050	33·430	33·550	33·450	33·400	33·250	32·890	32·760	32·600	32·530	32·420
37·0	32·840	33·090	33·445	33·510					32·750	32·570	32·500	32·460
42·0	32·920	33·110	33·430	33·540					32·780	32·600	32·520	32·500
47·0	32·940	33·150	33·460	33·500					32·820	32·600	32·530	32·500
52·0	32·950	33·180	33·500	33·490					32·750	32·600	32·500	32·500
57·0	32·940	33·200	33·550	33·460					32·730	32·600	32·520	32·500
Therm.	82°3	83°7	84°1	84°2	85°6	86°0	86°0	86°5	86°0	85°9	85°5	84°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°15′84	2°15′79	2°15′81	2°16′11	2°15′51	2°15′92	2°15′51	2°15′74	2°15′67	2°15′53	2°15′65	2°15′51
8·0	2·15·70	2·15·72	2·15·67	2·16·08					2·15·67	2·15·45	2·15·58	2·15·65
13·0	2·15·84	2·15·65	2·15·71	2·16·04					2·15·53	2·16·45	2·15·61	2·15·52
18·0	2·15·77	2·15·65	2·25·96	2·15·94					2·15·53	2·15·58	2·15·58	2·15·38
23·0	2·15·86	2·15·59	2·15·92	2·15·91					2·15·60	2·15·44	2·15·58	2·15·38
28·0	2·15·92	2·15·73	2·15·92	2·15·91					2·15·60	2·15·58	2·15·73	2·15·44
33·0	2·15·93	2·15·74	2·15·86	2·15·91	2·16·18	2·15·89	2·15·52	2·16·13	2·15·60	2·15·58	2·15·72	2·15·44
38·0	2·15·86	2·15·67	2·15·92	2·15·67					2·15·60	2·15·58	2·15·79	2·15·58
43·0	2·15·86	2·15·67	2·16·00	2·15·72					2·15·74	2·15·58	2·15·72	2·15·58
48·0	2·16·90	2·15·74	2·16·00	2·15·72					2·15·74	2·15·65	2·15·72	2·15·65
53·0	2·15·65	2·16·98	2·16·11	2·15·72					2·15·77	2·15·51	2·15·72	2·15·65
58·0	2·15·65	2·16·10	2·16·11	2·15·41					2°15·67	2·15·51	2·15·72	2·15·65

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′034	16′584	16′584	14′592	12′222	11′501	11′225	11′157	12′669	13′184	13′287	13′700	13′768
5·0	16·000	16·653	16·481	14·283	12·222					13·219	13·425	13·562	13·630
10·0	15·966	16·653	16·240	14·249	12·222					13·150	13·562	13·562	13·630
15·0	16·240	16·721	16·240	14·069	12·015					13·160	13·562	13·493	13·527
20·0	16·034	16·858	15·034	13·630	11·671					12·944	13·562	13·700	13·527
25·0	16·206	16·892	15·966	13·562	11·501					12·978	13·630	13·768	13·527
30·0	16·172	16·721	15·623	13·562	11·501	11·259	11·431	11·157	12·876	12·944	13·700	13·837	13·493
35·0	16·240	16·721	15·416	13·527	11·501					12·944	13·700	13·837	13·425
40·0	16·309	16·789	15·280	13·321	11·501					13·013	13·906	13·906	13·425
45·0	16·309	16·789	15·280	12·876	11·501					13·150	13·906	14·042	13·425
50·0	16·343	16·653	15·004	12·876	11·501					13·287	13·906	13·906	13·425
55·0	16·378	16·584	14·762	12·533	11·501					13·287	13·768	13·802	13·493

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttinge Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·855	17·980	18·165	18·150	18·250	18·000	17·900	17·550	17·015	16·950	16·760	16·730	16·710
7·0	17·850	18·060	18·200	18·150	18·250					16·940	16·740	16·810	16·750
12·0	17·850	18·065	18·230	18·150	18·300					16·920	16·750	16·810	16·740
17·0	17·825	18·065	18·380	18·150	18·200					16·935	16·750	16·760	16·740
22·0	17·875	18·050	18·370	18·175	18·200					16·950	16·750	16·760	16·740
27·0	17·860	18·085	18·300	18·150	18·100					16·940	16·750	16·710	16·750
32·0	17·890	18·150	18·240	18·150	18·100	18·050	17·750	18·360	17·100	16·900	16·740	16·650	16·760
37·0	17·875	18·140	18·240	18·150	18·100					16·890	16·700	16·600	16·715
42·0	17·930	18·120	18·200	18·150	18·100					16·870	16·655	16·590	16·840
47·0	17·920	18·135	18·100	18·100	18·100					16·815	16·650	16·610	16·820
52·0	17·985	18·200	18·200	18·110	18·100					16·775	16·650	16·670	16·845
57·0	18·000	18·200	18·200	18·200	18·050					16·760	16·650	16·690	16·840
Therm.	83°2	83°5	84°2	85°8	87°0	87°2	87°9	88°0	88°4	88°2	87°8	87°1	87°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	16·08·70	15·19·60	13·44·40	12·21·80	12·08·45					14·21·50	14·42·95	15·16·90	15·06·00
8·0	16·08·70	15·11·20	13·31·00	12·09·35	12·08·45					14·21·50	14·49·75	15·16·90	15·06·00
13·0	16·00·80	15·11·20	13·31·00	12·09·25	11·43·75					14·21·50	14·48·45	15·16·90	15·06·00
18·0	16·00·80	15·03·90	13·10·60	12·09·25	11·43·75					14·17·10	14·49·25	15·16·90	15·06·00
23·0	16·00·80	15·03·90	13·10·60	12·09·25	11·43·75					14·17·10	15·03·20	15·16·90	15·06·00
28·0	15·45·40	14·39·40	12·47·70	12·09·25	12·10·40	12·25·05	13·28·00	13·40·70	14·06·50	14·20·70	15·06·20	15·16·90	15·13·60
33·0	15·45·40	14·30·90	12·47·70	12·01·85	12·10·40					14·20·70	15·11·75	15·16·90	15·13·60
38·0	15·45·40	14·30·90	12·34·50	12·01·85	12·10·40					14·27·30	15·11·75	15·16·90	15·13·60
43·0	15·45·40	14·25·00	12·34·50	12·01·85	12·15·60					14·32·20	15·19·80	15·16·90	15·23·30
48·0	15·35·80	14·16·30	12·34·50	12·08·45	12·15·60					14·39·70	15·14·60	15·16·90	15·23·30
53·0	15·30·10	14·06·90	12·21·80	12·08·45	12·15·60					14·39·70	15·14·60	15·06·00	15·36·40
58·0	15·30·10	13·44·40	12·21·80	12·08·45	12·25·05	13·07·20	13·36·60	14·18·00	14·18·30	14·42·05	15·16·90	15·06·00	15·36·40
Therm.	85°2	84°5	84°5	85°2	86°0	86°5	87°1	87°8	88°3	88°2	87°8	86°9	87°2

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'34	17'28	15'40	13'05	12'11	12'37	12'90	13'42	13'94	14'09	14'40	14'47
5·0	17·34	17·18	15·19	12·90					14·09	14·20	14·25	14·40
10·0	17·39	17·02	14·99	12·90					14·09	14·20	14·20	14·47
15·0	17·39	16·92	14·78	12·68					13·94	14·20	14·20	14·47
20·0	17·48	16·82	14·52	12·63					13·94	14·25	14·47	14·35
25·0	17·53	16·71	14·47	12·37					13·88	14·30	14·47	14·25
30·0	17·53	16·56	14·35	12·37	12·11	12·63	12·95	13·62	13·88	14·47	14·47	14·25
35·0	17·43	16·35	14·20	12·37					13·88	14·47	14·47	14·20
40·0	17·48	16·04	14·04	12·26					13·88	14·62	14·57	14·20
45·0	17·39	15·97	13·88	12·21					13·99	14·57	14·52	14·20
50·0	17·34	15·77	13·62	12·16					14·14	14·47	14·47	14·30
55·0	17·31	15·51	13·36	12·16					14·14	14·47	14·47	14·35

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·130	33·140	33·020	33·180	32·900	32·850	32·550	32·080	32·100	32·000	32·030	32·120
7·0	33·120	33·120	33·050	33·270					32·100	32·020	32·090	32·140
12·0	33·150	33·140	33·030	33·190					32·090	32·050	32·100	32·150
17·0	33·150	33·230	33·050	33·250					32·080	32·100	32·100	32·150
22·0	33·100	33·200	33·050	33·170					32·090	32·110	32·100	32·190
27·0	33·100	33·200	33·050	33·120					32·100	32·100	32·040	32·190
32·0	33·090	33·180	33·050	33·100	32·950	32·750	32·890	32·210	32·100	32·030	32·000	32·190
37·0	33·060	33·130	33·050	33·100					32·090	32·020	31·990	32·200
42·0	33·020	33·080	33·040	33·090					32·050	31·990	32·000	32·200
47·0	33·100	33·000	33·020	33·050					32·020	31·980	31·980	32·200
52·0	33·200	33·020	33·000	32·980					31·980	31·940	32·060	32·200
57·0	33·170	33·000	33·080	32·940					31·990	31·990	32·100	32·200
Therm.	80°0	81°8	83°6	84°1	85°6	86°0	86°6	87°0	86°2	86°0	84°4	84°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3.0	2°15'51	2°15'51	2°15'24	2°15'18	2°15'74	2°14'90	2°14'54	2°15'34	2°15'18	2°15'24	2°15'51	2°15'58
8·0	2·15·58	2·15·55	2·15·08	2·15·32					2·15·17	2·15·24	2·15·37	2·15·44
13·0	2·15·58	2·15·31	2·15·19	2·15·32					2·15·24	2·15·37	2·15·37	2·15·44
18·0	2·15·51	2·15·31	2·15·29	2·15·25					2·15·24	2·15·47	2·15·30	2·15·34
23·0	2·15·63	2·15·39	2·15·15	2·15·05					2·15·03	2·15·37	2·15·36	2·15·48
28·0	2·15·68	2·15·61	2·15·22	2·15·02					2·15·06	2·15·44	2·15·58	2·15·48
33·0	2·15·51	2·15·55	2·15·22	2·15·02	2·15·65	2·14·53	2·14·26	2·15·40	2·15·03	2·15·36	2·15·50	2·15·44
38·0	2·15·51	2·15·50	2·15·34	2·15·17					2·15·03	2·15·36	2·15·36	2·15·38
43·0	2·15·58	2·15·36	2·15·27	2·15·45					2·15·10	2·15·57	2·15·43	2·15·38
48·0	2·15·44	2·15·36	2·14·97	2·15·60					2·15·24	2·15·43	2·15·56	2·15·38
53·0	2·15·30	2·15·22	2·15·40	2·15·60					2·15·24	2·15·43	2·15·57	2·15·38
58·0	2·15·57	2·15·13	2·15·49	2·15·60					2·15·24	2·15·43	2·15·46	2·15·44

TERM HOUR OBSERVATIONS ON THE 30TH AND 31ST MAY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′623	16′378	16′309	15′587	13′630	12′050	10′814	11′019	11′981	12′738	13′425	13′974	13′940
5·0	15·623	16·378	16·240	15·321	13·562					12·876	13·527	14·008	13·906
10·0	15·691	16·378	16·240	14·936	13·562					12·944	13·562	14·111	13·837
15·0	15·828	16·378	16·172	14·936	13·562					13·013	13·562	14·179	13·700
20·0	15·897	16·309	16·172	14·694	13·562					13·150	13·630	14·111	13·562
25·0	16·172	16·309	16·102	14·592	13·321					13·219	13·700	14·042	13·562
30·0	16·102	16·309	16·172	14·592	13·219	11·501	10·814	11·501	12·394	13·287	13·837	14·042	13·425
35·0	16·274	16·378	16·102	14·288	12·876					13·355	13·906	14·042	13·287
40·0	16·343	16·378	15·966	14·249	12·635					13·355	13·837	14·042	13·219
45·0	16·309	16·378	15·623	14·042	12·533					13·425	13·906	14·042	13·150
50·0	16·240	16·378	15·623	13·906	12·533					13·459	13·906	14·008	13·081
55·0	16·309	16·309	15·623	13·906	12·360					13·425	13·974	13·940	13·081

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·050	18·250	18·590	18·850	19·060	19·090	18·915	18·490	18·155	17·880	17·675	17·390	17·300
7·0	18·050	18·180	18·630	18·850	19·125					17·850	17·600	17·370	17·320
12·0	18·005	18·295	18·660	18·855	19·100					17·820	17·610	17·330	17·320
17·0	18·095	18·320	18·690	15·940	19·100					17·790	17·600	17·380	17·330
22·0	18·145	18·380	18·690	18·950	19·100					17·775	17·580	17·390	17·310
27·0	18·075	18·395	18·700	18·950	19·100					17·750	17·565	17·370	17·310
32·0	18·205	18·445	18·705	18·950	19·100	18·950	18·750	18·300	18·020	17·730	17·500	17·330	17·310
37·0	18·110	18·475	18·800	18·950	19·100					17·700	17·470	17·320	17·310
42·0	18·150	18·500	18·800	19·000	19·100					17·650	17·460	17·340	17·330
47·0	18·235	18·505	18·800	19·050	19·100					17·640	17·440	17·290	17·340
52·0	18·210	18·515	18·800	19·050	19·100					17·680	17·410	17·290	17·320
57·0	18·250	18·550	18·800	19·050	19·100					17·685	17·400	17·300	17·310
Therm.	83°0	83°8	84°7	85°7	86°5	87°0	87°7	87°9	87°6	88°0	88°0	87°9	86°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	16·36·90	16·30·50	16·04·70	13·22·35	12·33·75					15·28·40	16·20·50	16·41·30	16·25·30
8·0	16·36·90	16·30·50	15·42·10	13·22·35	12·25·40					15·23·40	16·25·85	16·49·00	16·17·90
13·0	16·41·80	16·30·50	15·42·10	13·08·55	12·05·40					15·27·70	16·25·85	16·49·00	16·17·90
18·0	16·41·80	16·30·50	15·33·10	13·08·55	12·05·40					15·27·70	16·25·85	16·49·00	16·17·90
23·0	16·41·80	16·30·50	15·33·10	13·08·55	12·05·40					15·31·30	16·25·85	16·49·00	16·17·90
28·0	16·41·80	16·19·50	15·20·50	13·08·55	12·20·00	12·14·50	13·20·70	14·27·20	15·17·70	15·31·30	16·31·00	16·49·00	16·17·90
33·0	16·41·80	16·19·50	15·20·50	12·43·55	12·14·50					16·11·70	16·31·45	16·49·00	16·17·90
38·0	16·41·80	16·19·50	14·03·50	12·43·55	12·14·50					16·13·60	16·34·45	16·49·00	16·09·50
43·0	16·30·50	16·19·50	14·03·50	12·43·55	12·14·50					16·18·50	16·34·45	16·33·00	16·09·50
48·0	16·30·50	16·19·50	14·03·50	12·33·75	12·09·60					16·18·50	16·41·30	16·33·00	16·09·50
53·0	16·30·50	16·04·70	13·35·00	12·33·75	12·09·60					16·18·50	16·41·30	16·33·00	16·01·40
58·0	16·30·50	16·04·70	13·35·00	12·33·75	12·09·60	13·01·40	14·05·40	14·48·50	15·19·70	16·18·50	16·41·30	16·25·30	16·01·40
Therm.	84°8	84°4	84°5	85°2	86°0	86°5	87°0	87°7	87°7	87°7	88°2	88°0	87°2

TERM HOUR OBSERVATIONS ON THE 30TH AND 31ST MAY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16'82	16'97	16'19	14'62	12'90	11'59	11'85	12'98	13'62	14'30	14'73	14'14
5·0	17·02	16·97	16·04	14·47					13·78	14·35	14·73	13·99
10·0	17·08	16·97	15·92	14·35					13·88	14·40	14·78	14·09
15·0	17·08	16·97	15·77	14·20					13·88	14·40	14·78	14·20
20·0	17·08	16·82	15·51	14·09					13·94	14·47	14·78	14·14
25·0	17·08	16·82	15·40	13·94					13·99	14·47	14·78	14·04
30·0	17·08	16·82	15·25	12·83	12·11	11·59	12·37	13·10	14·04	14·47	14·78	13·99
35·0	17·08	16·82	14·99	13·62					14·14	14·47	14·73	13·99
40·0	17·08	16·66	14·99	13·42					14·20	14·47	14·57	13·94
45·0	17·13	16·56	14·88	13·31					14·25	14·52	14·40	13·94
50·0	17·13	16·45	14·78	13·16					14·30	14·57	14·35	13·83
55·0	16·97	16·40	14·67	13·00					14·25	14·73	14·20	13·78

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·300	33·570	33·900	34·150	34·270	34·150	33·700	33·380	32·920	32·760	32·560	32·520
7·0	33·370	33·600	33·900	34·170					32·910	32·700	32·540	32·540
12·0	33·400	33·650	33·900	34·200					32·880	32·700	32·520	32·550
17·0	33·400	33·670	33·930	34·200					32·860	32·690	32·500	32·570
22·0	33·400	33·680	33·980	34·200					32·810	32·660	32·500	32·590
27·0	33·400	33·710	34·020	34·200					32·810	32·650	32·500	32·600
32·0	33·400	33·750	34·070	34·260	34·150	33·950	33·500	33·200	32·800	32·610	32·520	32·600
37·0	33·440	33·780	34·090	34·250					32·750	32·600	32·500	32·600
42·0	33·500	33·820	34·120	34·250					32·720	32·600	32·500	32·620
47·0	33·530	33·970	34·130	34·280					32·700	32·606	32·500	32·600
52·0	33·540	33·900	34·140	34·290					32·750	32·600	32·500	32·600
57·0	33·540	33·900	34·140	34·290					32·790	32·600	32·500	32·59
Therm.	81°9	82°1	83°7	84°1	84°3	85°8	86°0	86°0	86°0	86°0	85°8	84°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°15'03	2°15'10	2°15'38	2°14'71	2°14'43	2°16'20	2°14'69	2°14'79	2°14'98	2°15'09	2°15'34	2°15'46
8·0	2·15·03	2·15·17	2·15·25	2·14·79					2·14·97	2·15·19	2·15·24	2·15·43
13·0	2·15·03	2·15·17	2·15·02	2·14·93					2·15·03	2·15·22	2·15·34	2·15·36
18·0	2·15·03	2·15·11	2·15·02	2·15·08					2·14·96	2·15·22	2·15·41	2·15·22
23·0	2·14·96	2·15·11	2·14·91	2·15·08					2·15·10	2·15·29	2·15·34	2·15·22
28·0	2·14·96	2·15·03	2·14·96	2·14·84					2·15·17	2·15·22	2·15·27	2·15·22
33·0	2·14·96	2·15·11	2·15·10	2·14·88	2·14·74	2·15·34	2·14·88	2·15·20	2·15·10	2·15·36	2·15·27	2·15·24
38·0	2·15·03	2·15·03	2·14·79	1·24·83					2·15·17	2·15·42	2·15·41	2·15·10
43·0	2·15·03	2·15·04	2·14·90	2·14·59					2·15·16	2·15·36	2·15·41	2·15·17
48·0	2·15·03	2·14·69	2·14·69	2·14·48					2·15·24	2·15·28	2·15·41	2·15·10
53·0	2·15·03	2·14·83	2·14·71	2·14·62					2·15·11	2·15·28	2·15·38	2·15·17
58·0	2·14·96	2·14·98	2·14·85	2·14·74					2·15·09	2·15·34	2·15·31	2·15·17

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	16′274	16′378	14′936	13′888	12′826	11′845	11′845	12′910	13′219	14′042	13′630	13′630
5·0	15·211	16·378	16·447	15·038	13·734					13·459	14·179	13·527	13·700
10·0	15·450	16·584	16·240	15·280	13·630					13·425	14·179	13·562	13·630
15·0	15·691	16·721	16·240	14·936	13·560					13·871	14·111	13·562	13·630
20·0	15·623	16·721	16·240	14·592	13·562					13·527	13·906	13·562	13·562
25·0	16·136	16·653	16·102	14·557	13·219					13·596	14·179	13·493	13·562
30·0	15·897	16·584	15·966	14·420	13·562	12·533	11·501	12·326	12·910	13·630	13·974	13·630	13·562
35·0	16·034	16·309	16·000	14·249	13·389					13·562	13·906	13·630	13·562
40·0	16·172	16·584	15·862	14·249	13·037					13·762	13·906	13·630	13·630
45·0	16·240	16·447	15·691	13·906	13·184					13·647	13·906	13·630	13·630
50·0	16·447	16·378	15·623	13·906	12·876					13·837	13·768	13·664	13·630
55·0	16·447	16·309	15·348	13·906	12·788					13·974	13·630	13·700	13·493

LARGE HORIZONTAL MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·890	18·080	18·370	18·740	18·825	18·825	18·150	18·855	18·755	18·065	17·790	18·025	18·200
7·0	17·865	18·105	18·360	18·750	18·775					17·965	17·827	18·080	18·180
12·0	17·910	18·050	18·480	18·725	18·850					17·855	17·850	18·100	18·200
17·0	17·970	18·140	18·490	18·800	18·900					17·780	17·860	18·100	18·200
22·0	17·950	18·145	18·520	18·750	18·950					17·725	17·865	18·100	18·200
27·0	18·000	18·190	18·545	18·750	18·975					17·650	17·870	18·110	18·200
32·0	17·910	18·180	18·580	18·800	18·950	18·750	18·850	18·910	18·450	17·625	17·875	18·130	18·190
37·0	17·940	18·275	18·585	18·825	18·950					17·610	17·870	18·050	18·160
42·0	17·970	18·205	18·580	18·810	18·975					17·640	17·880	18·050	18·170
47·0	18·005	18·250	18·600	18·800	18·950					17·685	17·900	18·050	18·130
52·0	17·985	18·350	18·700	18·775	18·925					17·800	17·950	18·080	18·130
57·0	17·955	18·350	18·700	18·775	18·950					17·745	14·940	18·110	18·140
Therm.	82°2	82°0	82°0	82°2	82°2	82°0	82°0	82°0	82°0	82°0	81°9	81°6	81°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	−0·01·00	0·16·30	−1·00·00	−2·24·05	−3·14·50					−1·31·70	−1·40·20	−2·14·50	−2·16·20
8·0	−0·01·00	0·05·50	−1·10·50	−2·24·05	−3·14·50					−1·24·50	−1·40·20	−2·14·50	−2·09·30
13·0	0·08·60	0·05·00	−1·19·30	−2·24·05	−3·27·65					−1·24·50	−1·45·20	−2·14·50	−2·09·30
18·0	0·08·60	−0·04·40	−1·19·30	−2·37·50	−3·27·65					−1·29·40	−2·02·05	−2·14·50	−2·18·40
23·0	0·08·60	−0·13·90	−1·29·20	−2·37·50	−3·27·65					−1·24·75	−2·02·05	−2·14·50	−2·18·40
28·0	0·08·60	−0·13·90	−1·29·20	−2·37·50	−3·27·65	−3·40·10	−3·31·50	−2·08·35	−2·14·05	−1·31·20	−2·02·05	−2·14·50	−2·18·40
33·0	0·20·20	−0·23·80	−1·43·00	−3·00·50	−3·27·65					−1·35·80	−2·02·05	−2·14·50	−2·18·40
38·0	0·20·20	−0·23·80	−1·43·60	−3·00·50	−3·27·65					−1·35·80	−2·06·80	−2·05·70	−2·18·40
43·0	0·26·30	−0·33·40	−1·48·60	−3·14·50	−3·27·65					−1·40·20	−2·06·80	−2·05·70	−2·09·80
48·0	0·21·80	−0·33·40	−2·10·20	−3·14·50	−3·27·65					−1·40·20	−2·06·80	−2·05·70	−2·09·30
53·0	0·21·80	−0·44·60	−2·10·20	−3·14·50	−3·40·10					−1·40·20	−2·14·50	−2·05·70	−2·09·30
58·0	0·16·30	−1·00·00	−2·24·05	−3·14·50	−3·40·10	−3·40·10	2·33·25	−1·41·25	−1·26·10	−1·40·20	−2·14·50	−2·16·20	−2·16·30
Therm.	84°7	83°4	82°9	82°6	82°6	82°5	82°5	82°9	82°7	82°7	82°6	82°0	81°9

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND JUNE 1847.

SMALL DECLINATION MAGNETOMETER, *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′23	17′08	16′04	14′47	13′42	12′63	13′00	13′42	13′94	14′73	14′47	14′47
5·0	17·28	17·08	15·97	14·35					14·09	14·73	14·35	14·47
10·0	17·34	17·08	15·66	14·25					14·14	14·73	14·25	14·47
15·0	17·34	16·82	15·51	14·20					14·20	14·73	14·25	14·40
20·0	17·34	16·76	15·40	14·04					14·25	14·73	14·30	14·35
25·0	17·39	16·76	15·19	13·94					14·30	14·73	14·30	14·25
30·0	17·34	16·61	15·04	13·94	13·00	12·37	13·42	13·42	14·35	14·73	14·35	14·20
35·0	17·34	16·61	14·99	13·88					14·40	14·62	14·35	14·20
40·0	17·34	16·56	14·93	13·62					14·47	14·62	14·40	14·20
45·0	17·28	16·50	14·73	13·62					14·47	14·62	14·47	14·25
50·0	17·18	16·30	14·62	13·47					14·47	14·47	14·47	14·20
55·0	17·13	16·09	14·47	13·42					14·57	14·47	14·47	14·14

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·400	33·550	33·880	34·090	34·240	33·950	34·180	34·000	33·300	32·930	32·980	32·990
7·0	33·390	33·580	33·870	34·140					33·190	32·940	33·000	32·990
12·0	33·350	33·600	33·900	34·130					33·090	32·970	33·030	33·000
17·0	33·370	33·640	34·960	34·180					32·970	32·970	33·050	32·970
22·0	33·400	33·700	34·030	34·220					32·900	32·980	33·030	32·980
27·0	33·410	33·750	34·100	34·230					32·960	32·980	33·000	32·990
32·0	33·430	33·820	34·090	34·270	34·000	34·150	34·110	32·700	32·790	32·950	33·020	32·980
37·0	33·430	33·800	34·080	34·300					32·720	32·940	33·000	32·980
42·0	33·450	33·800	34·050	34·300					32·750	32·930	33·000	32·970
47·0	33·480	33·820	34·080	34·300					32·800	32·900	32·980	32·900
52·0	33·500	33·850	34·100	34·330					32·830	32·930	32·980	32·900
57·0	33·530	33·880	34·070	34·350					32·870	32·950	32·980	32·900
Therm.	77°9	78°0	78°0	78°2	78°0	79°0	79°0	79°2	78°2	78°2	78°2	78°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°14′92	2°15′17	2°14′87	2°15′12	2°14′83	2°16′38	2°15′84	2°16′01	2°16′32	2°16′28	2°16′59	2°16′44
8·0	2·15·03	2·15·38	2·14·97	2·15·10					2·16·41	2·16·42	2·16·49	2·16·66
13·0	2·15·37	2·15·17	2·15·36	2·15·15					2·16·39	2·16·27	2·16·52	2·16·59
18·0	2·15·51	2·15·17	2·15·02	2·15·08					2·16·83	2·16·20	2·16·52	2·16·59
23·0	2·15·51	2·15·17	2·14·67	2·15·08					2·16·49	2·16·00	2·16·37	2·16·52
28·0	2·15·30	2·15·03	2·14·78	2·14·74					2·16·56	2·16·27	2·16·30	2·16·52
33·0	2·15·23	2·15·04	2·14·79	2·15·08	2·15·49	2·16·03	2·16·00	2·16·15	2·16·44	2·16·06	2·16·44	2·16·52
38·0	2·14·96	2·15·07	2·14·76	2·15·05					2·16·37	2·16·28	2·16·44	2·16·52
43·0	2·15·37	2·15·09	2·14·90	2·14·70					2·16·57	2·16·43	2·16·30	2·16·59
48·0	2·15·24	2·14·90	2·14·71	2·14·84					2·16·46	2·16·72	2·16·30	2·16·44
53·0	2·15·17	2·14·98	2·14·71	2·14·69					2·16·51	2·16·58	2·16·33	2·16·59
58·0	2·15·10	2·15·14	2·14·85	2·14·55					2·16·49	2·16·44	2·16·51	2·16·45

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'004	16'309	16'447	15'460	13'906	12'876	11'501	11'501	12'050	12'876	13'355	13'700	13'700
5·0	15·176	16·447	16·378	15·280	13·906					12·876	13·355	13·700	13·630
10·0	15·245	16·481	16·240	15·280	13·906					12·876	13·493	13·768	13·562
15·0	15·280	16·584	16·102	15·280	13·837					12·876	13·493	13·768	13·630
20·0	15·348	16·584	16·102	15·108	13·562					12·876	13·493	13·768	13·700
25·0	15·623	16·584	16·034	14·240	13·734					12·944	13·630	13·768	13·630
30·0	15·760	16·618	15·966	14·832	13·562	11·913	11·501	11·501	12·394	13·013	13·562	13·768	13·630
35·0	15·897	16·653	15·966	14·660	13·219					13·013	13·562	13·837	13·630
40·0	15·966	16·653	15·897	14·592	13·219					13·219	13·630	13·768	13·596
45·0	16·000	16·653	15·623	14·592	13·219					13·219	13·630	13·837	13·562
50·0	16·000	16·584	15·691	14·523	13·219					13·219	13·630	13·768	13·562
55·0	16·172	16·447	15·623	13·974	12·876					13·287	13·630	13·768	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·040	18·220	18·490	18·600	18·740	18·750	18·650	18·360	18·070	17·720	17·550	17·360	17·290
7·0	18·030	18·220	18·495	18·600	18·750					17·700	17·520	17·350	17·270
12·0	18·040	18·250	18·510	18·600	18·750					17·700	17·520	17·350	17·260
17·0	18·080	18·290	18·520	18·640	18·750					17·675	17·510	17·340	17·250
22·0	18·100	18·310	18·510	18·650	18·750					17·670	17·490	17·340	17·250
27·0	18·110	18·340	18·540	18·700	18·750					17·650	17·475	17·330	17·245
32·0	18·110	18·390	18·595	18·700	18·750	18·700	18·540	18·240	17·890	17·650	17·470	17·310	17·240
37·0	18·110	18·400	18·590	18·700	18·750					17·650	17·440	17·310	17·245
42·0	18·150	18·400	18·600	18·750	18·750					17·610	17·440	17·320	17·240
47·0	18·150	18·420	18·600	18·750	18·750					17·600	17·410	17·310	17·230
52·0	18·190	18·440	18·600	18·790	18·750					17·570	17·380	17·310	17·230
57·0	18·210	18·480	18·600	18·750	18·750					17·550	17·360	17·290	17·230
Therm.	82°4	82°9	83°9	85°0	86°0	86°0	86°0	86°4	86°5	86°3	86°0	85°9	85°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	-0·12·60	0·02·00	-0·30·80	-2·01·90	-3·00·20					-0·46·00	-0·30·90	-0·18·90	-0·39·80
8·0	-0·03·60	0·02·00	-1·01·60	-2·01·90	-3·00·20					-0·46·00	-0·24·00	-0·16·50	-0·39·80
13·0	-0·03·60	0·02·00	-1·01·60	-2·01·90	-3·10·10					-0·46·00	-0·24·00	-0·16·50	-0·47·30
18·0	-0·03·60	0·02·00	-1·12·00	-2·11·60	-3·10·10					-0·46·00	-0·24·00	-0·16·50	-0·47·30
23·0	-0·03·60	-0·12·60	-1·12·00	-2·11·60	-3·10·10					-0·42·15	-0·18·90	-0·16·50	-0·47·30
28·0	-0·03·60	-0·12·60	-1·20·10	-2·22·60	-3·10·10	-3·23·85	-2·27·70	-2·11·45	-1·10·00	-0·42·15	-0·18·90	-0·24·50	-0·37·80
33·0	-0·03·60	-0·18·00	-1·20·10	-2·22·60	-3·10·10					-0·38·50	-0·18·90	-0·24·50	-0·37·80
38·0	0·02·00	-0·18·00	-1·28·70	-2·22·60	-3·10·10					-0·38·50	-0·18·90	-0·24·50	-0·37·80
43·0	0·02·00	-0·18·00	-1·28·70	-2·38·50	-3·10·10					-0·35·50	-0·18·90	-0·33·80	-0·37·80
48·0	0·02·00	-0·30·10	-1·28·70	-2·38·50	-3·23·85					-0·35·50	-0·18·90	-0·33·80	-0·37·80
53·0	0·02·00	-0·36·80	-1·39·60	-2·38·50	-3·23·85					-0·30·90	-0·16·90	-0·33·80	-0·37·80
58·0	0·02·00	-0·36·80	-1·39·60	-3·00·20	-3·23·85	-3·17·10	-2·09·05	-1·20·10	-0·46·00	-0·30·90	-0·18·90	-0·39·80	-0·37·80
Therm.	84°0	83°7	84°0	84°6	85°5	85°5	85°7	86°2	86°3	86°3	86°2	85°9	85°8

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17′08″	17′34	16′45	14′73	13′94	12′37	12′37	12′90	13′62	14′20	14′47	14′47
5·0	17·18	17·18	16·35	14·73					13·73	14·20	14·47	14·47
10·0	17·18	17·08	16·19	14·52					13·78	14·25	14·47	14·47
15·0	17·34	17·08	16·04	14·40					13·78	14·30	14·47	14·47
20·0	17·34	17·08	15·97	14·20					13·78	14·30	14·52	14·47
25·0	17·34	17·02	15·82	14·20					13·83	14·47	14·67	14·47
30·0	17·39	16·87	15·71	14·20	12·90	12·37	12·37	13·26	13·88	14·47	14·62	14·47
35·0	17·39	16·82	15·51	14·20					13·94	14·47	14·67	14·40
40·0	17·39	16·76	15·45	14·14					13·94	14·47	14·52	14·40
45·0	17·39	16·66	15·25	14·14					13·99	14·47	14·47	14·40
50·0	17·34	16·56	15·04	13·94					14·09	14·47	14·47	14·40
55·0	17·28	16·56	14·99	13·94					14·14	14·47	14·47	14·25

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	32·820	32·920	33·000	33·300	33·500	33·250	33·100	32·800	32·500	32·230	32·100	32·140
7·0	32·800	32·900	33·000	33·300					32·450	32·210	32·150	32·150
12·0	32·790	32·900	33·020	33·325					32·470	32·220	32·150	32·150
17·0	32·800	32·950	33·070	33·350					32·440	32·200	32·150	32·130
22·0	32·820	32·950	33·080	33·440					32·400	32·210	32·130	32·100
27·0	32·850	32·980	33·100	33·470					32·360	32·200	32·120	32·100
32·0	32·870	33 000	33·120	33·420	33·350	33·350	33·000	32·680	32·330	32·190	32·100	32·100
37·0	32·850	32·990	33·140	33·390					32·310	32·170	32·100	32·100
42·0	32·850	32·980	33·170	33·340					32·300	32·150	32·100	32·100
47·0	32·850	32·980	33·210	33·300					32·280	32·140	32·100	32·100
52·0	32·850	32·990	33·250	33·850					32·250	32·120	32·150	32·090
57·0	32·890	32·990	33·280	33·370					32·230	32·100	32·140	32·090
Therm.	80°3	82°0	83°5	84°0	84°0	84°6	85°0	84°8	84°3	84°0	83°8	83°5

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	2°16′24	2°15′81	2°15′68	2°15′57	2°15′84	2°17′47	2°17′18	2°17′16	2°17′27	2°17′46	2°17′22	2°17′08
8·0	2·16·38	2·15·88	2·15·50	2·15·72					2·17·27	2·17·30	2·17·22	2·17·01
13·0	2·16·41	2·15·74	2·15·65	2·15·72					2·17·27	2·17·44	2·17·29	2·16·94
18·0	2·16·37	2·15·74	2·15·79	2·15·65					2·17·27	2·17·44	2·17·29	2·17·01
23·0	2·16·22	2·15·89	2·15·62	2·15·37					2·17·27	2·17·30	2·17·29	2·17·08
28·0	2·16·08	2·15·96	2·15·63	2·15·68					2·17·33	2·17·30	2·17·18	2·17·01
33·0	2·15·98	2·16·04	2·15·74	2·15·51	2·16·59	2·17·25	2·17·18	2·16·92	2·17·40	2·17·08	2·17·18	2·17·15
38·0	2·15·82	2·16·04	2·15·96	2·15·17					2·17·40	2·17·23	2·17·22	2·17·15
43·0	2·15·86	2·16·12	2·15·96	2·15·30					2·17·61	2·17·15	2·17·15	2·17·12
48·0	2·15·86	2·15·84	2·16·04	2·15·60					2·17·61	2·17·01	2·17·22	2·17·28
53·0	2·15·79	2·15·91	2·15·67	2·15·77					2·17·46	2·17·01	2·17[illegible]	2·17·23
58·0	2·15·66	2·15·84	2·15·63	2·15·69					2·17·53	2·17·15	2·17[illegible]	2·17·37

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′382	16′447	15′966	15′211	14′454	12′635	11′501	11′845	12′256	12′944	13′906	13′630	13′253
5·0	15·553	16·447	15·966	15·211	14·283					13·081	13·906	13·493	13·219
10·0	15·628	16·447	15·931	14·762	14·249					13·150	13·906	13·425	13·184
15·0	15·897	16·584	15·828	14·762	14·249					13·150	13·906	13·355	13·184
20·0	15·897	16·584	15·760	14·762	14·249					13·219	13·906	13·355	13·150
25·0	15·966	16·515	15·450	14·694	14·249					13·287	13·906	13·287	13·115
30·0	15·966	16·549	15·348	14·660	13·940	11·947	11·673	11·845	12·669	13·498	13·906	13·287	13·081
35·0	16·034	16·515	15·446	14·660	13·562					13·562	13·871	13·253	13·081
40·0	16·034	16·447	15·280	14·592	13·562					13·700	13·871	13·253	13·013
45·0	16·034	16·447	15·280	14·592	13·562					13·768	13·768	13·253	12·876
50·0	16·172	16·240	15·211	14·592	13·219					13·768	13·700	13·219	12·806
55·0	16·447	16·102	15·211	14·592	13·201					13·906	13·562	13·219	12·669

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·660	18·760	18·760	19·025	18·950	18·850	18·750	18·650	18·620	18·320	17·900	17·495	17·490
7·0	18·680	18·840	18·760	19·050	18·950					18·270	17·840	17·490	17·490
12·0	18·685	18·820	18·770	18·950	18·950					18·240	17·800	17·480	17·490
17·0	18·690	18·800	18·840	18·950	19·050					18·200	17·870	17·510	17·410
22·0	18·735	18·810	18·860	18·950	19·050					18·180	17·720	17·500	17·410
27·0	18·770	18·850	18·860	18·950	19·050					18·120	17·700	17·500	17·455
32·0	18·750	18·895	18·950	18·950	19·000	18·800	18·750	18·725	18·500	18·100	17·620	17·520	17·480
37·0	18·750	18·810	18·950	18·950	18·950					18·040	17·570	17·520	17·415
42·0	18·720	18·830	18·900	18·900	18·950					18·010	17·530	17·500	17·420
47·0	18·760	18·850	18·930	18·900	18·950					18·000	17·520	17·500	17·410
52·0	18·825	18·820	19·000	18·900	18·905					17·950	17·505	17·500	17·430
57·0	18·815	18·770	19·000	18·950	18·850					17·920	17·510	17·490	17·460
Therm.	83°7	83°3	84°3	85°0	86°0	86°5	87°0	87°2	87°4	86°5	86°4	86°1	86°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·42·70	0·34·90	0·17·00	−0·15·25	−0·28·90					−0·03·40	0·20·30	0·08·30	0·14·90
8·0	0·42·70	0·34·90	0·17·00	−0·15·25	−0·28·90					0·07·50	0·20·30	0·08·30	0·14·90
13·0	0·42·70	0·34·90	0·10·00	−0·15·25	−0·37·85					0·07·50	0·20·30	0·08·30	2·11·00
18·0	0·42·70	0·34·90	0·10·00	−0·15·25	−0·37·85					0·10·80	0·14·60	0·08·30	2·08·60
23·0	0·42·70	0·34·90	0·10·00	−0·15·25	−0·37·85					0·09·30	0·14·60	0·08·30	2·08·60
28·0	0·34·90	0·27·80	0·01·70	−0·15·25	−0·37·85	−1·15·50	−0·29·25	−0·35·45	−0·32·40	0·12·70	0·14·60	0·08·30	2·08·60
33·0	0·34·90	0·27·80	0·01·70	−0·15·25	−0·45·95					0·18·40	0·14·60	0·08·30	2·08·60
38·0	0·34·90	0·27·80	−0·07·60	−0·15·25	−0·45·95					0·18·40	0·14·60	0·08·30	2·08·60
43·0	0·34·90	0·27·80	−0·07·60	−0·21·40	−0·45·95					0·18·40	0·08·30	0·08·30	1·48·70
48·0	0·34·90	0·17·00	−0·07·60	−0·21·40	−0·45·95					0·23·10	0·08·30	0·08·30	1·48·70
53·0	0·3[illegible]	0·17·00	−0·07·60	−0·21·40	−1·04·35					0·23·10	0·08·30	0·08·30	1·48·70
58·0	0·34·90	0·17·00	−0·07·60	−0·28·90	−1·04·35	−0·43·25	−0·35·45	−0·32·40	−0·03·40	0·23·10	0·08·30	0·14·90	1·44·60
Therm.	85°5	84°8	84°9	85°0	85°0	86°2	86°5	87°2	87°7	87°3	86°5	86°4	86°0

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′53	17′08	16′04	15′51	13′94	12′63	12′90	13′42	13′78	14′99	14′62	14′47
5·0	17·39	17·08	16·04	15·51					13·94	14·99	14·47	14·40
10·0	17·39	16·87	16·04	15·51					14·09	15·04	14·47	14·35
15·0	17·48	16·87	15·97	15·40					14·20	14·99	14·47	14·40
20·0	17·60	16·82	15·97	15·25					14·25	14·99	14·47	14·25
25·0	17·60	16·71	15·97	15·09					14·47	14·99	14·47	14·25
30·0	17·53	16·56	15·87	14·99	12·90	12·90	12·90	13·52	14·52	14·99	14·47	14·25
35·0	17·39	16·45	15·82	14·78					14·73	14·99	14·47	14·20
40·0	17·39	16·19	15·71	14·62					14·78	14·99	14·47	14·20
45·0	17·39	16·24	15·56	14·47					14·99	14·93	14·47	14·14
50·0	17·18	16·14	15·51	14·35					14·99	14·73	14·47	14·09
55·0	17·08	16·09	15·51	14·14					14·99	14·62	14·47	13·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·340	33·190	33·500	33·360	33·150	33·200	33·080	33·100	33·260	32·340	31·970	31·990
7·0	33·340	33·170	33·500	33·340					33·170	32·260	31·990	31·970
12·0	33·350	33·180	33·490	33·300					33·090	32·250	31·980	31·980
17·0	33·350	33·200	33·430	33·320					32·980	32·200	32·000	31·900
22·0	33·360	33·230	33·390	33·350					32·910	32·170	32·020	31·900
27·0	33·380	33·260	33·35	33·340					32·840	32·150	32·000	31·900
32·0	33·400	33·290	33·340	33·300	33·150	33·225	33·310	33·200	32·760	32·100	32·000	31·900
37·0	33·400	33·430	33·310	33·250					32·670	32·050	32·000	31·930
42·0	33·370	33·650	33·310	33·200					32·600	32·020	32·000	31·950
47·0	33·300	33·480	33·300	33·200					32·500	32·000	32·000	31·980
52·0	33·260	33·480	33·320	33·150					32·400	31·990	32·000	32·000
57·0	33·210	33·510	33·350	33·180					32·400	32·000	32·000	32·000
Therm.	81°5	82°0	82°1	83°8	84°1	85°2	85°7	85°6	83°8	84°0	84°0	83°7

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°16′96	2°17′20	2°17′02	2°17′26	2°16′74	2°17′09	2°16′81	2°16′79	2°17′01	2°17′01	2°17′01	2°16′92
8·0	2·16·96	2·17·34	2·17·02	2·17·09					2·16·60	2·17·01	2·16·87	2·17·03
13·0	2·16·96	2·17·30	2·16·57	2·17·21					2·16·67	2·17·01	2·16·81	2·17·13
18·0	2·17·09	2·17·35	2·16·71	2·17·35					2·16·67	2·17·01	2·16·72	2·17·28
23·0	2·17·09	2·17·28	2·16·71	2·17·35					2·16·74	2·17·01	2·16·72	2·17·26
28·0	2·17·08	2·17·11	2·16·64	2·17·35					2·16·67	2·17·01	2·16·67	2·17·22
33·0	2·17·06	2·17·01	2·16·75	2·17·04	2·16·48	2·16·35	2·16·53	2·16·62	2·16·87	2·17·01	2·16·67	2·17·18
38·0	2·17·08	2·16·94	2·16·90	2·16·80					2·16·94	2·17·11	2·16·68	2·17·32
43·0	2·17·10	2·16·80	2·16·83	2·18·94					2·16·94	2·17·11	2·16·63	2·17·25
48·0	2·17·10	2·16·80	2·16·97	2·17·08					2·17·01	2·17·01	2·16·63	2·17·12
53·0	2·17·04	2·16·87	2·17·11	2·16·89					2·16·87	2·16·94	2·16·74	2·17·20
58·0	2·17·18	2·16·87	2·17·26	2·17·15					2·17·01	2·16·94	2·16·89	2·17·06

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH JUNE, 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′485	16′034	16′172	14′936	13′906	12′394	11′157	10′952	11′639	11′913	13′287	13′562	13′219
5·0	15·485	16·034	16·034	14·936	13·768					11·913	13·355	13·562	13·219
10·0	15·623	16·240	16·000	14·936	13·562					11·913	13·425	13·562	13·081
15·0	15·691	16·309	15·966	14·936	13·562					12·738	13·425	13·562	13·013
20·0	15·828	16·343	15·760	14·936	13·562					12·676	13·493	13·562	13·013
25·0	15·691	16·240	15·623	14·762	13·219					12·944	13·562	13·562	13·013
30·0	15·794	16·172	15·558	14·523	13·219	11·845	10·951	11·363	11·845	13·081	13·630	13·562	13·013
35·0	15·760	16·309	15·623	14·368	13·219					13·219	13·630	13·562	12·944
40·0	15·966	16·309	15·280	14·523	13·219					13·219	13·630	13·562	12·910
45·0	16·000	16·309	15·280	14·420	12·876					13·253	13·630	13·493	12·876
50·0	16·102	16·309	15·280	13·974	12·876					13·355	13·630	13·425	12·876
55·0	16·102	16·172	15·280	13·906	12·703					13·355	13·630	13·287	12·806

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·500	18·650	18·945	19·150	19·200	19·282	18·777	18·420	18·230	17·920	17·600	17·550	17·630
7·0	18·450	18·650	18·975	19·200	19·200					17·890	17·565	17·550	17·630
12·0	18·510	18·660	18·985	19·200	19·250					17·850	17·560	17·550	17·630
17·0	18·570	18·660	18·985	19·200	19·250					17·880	17·570	17·560	17·630
22·0	18·550	18·770	18·975	19·200	19·250					17·800	17·575	17·540	17·630
27·0	18·620	18·795	18·925	19·250	19·350					17·750	17·570	17·550	17·630
32·0	18·610	18·800	19·015	19·160	19·350	19·055	18·590	18·350	18·170	17·712	17·570	17·550	17·620
37·0	18·620	18·845	19·050	19·215	19·350					17·680	17·570	17·550	17·610
42·0	18·680	18·850	19·050	19·250	19·300					17·650	17·570	17·560	17·580
47·0	18·700	18·850	19·050	19·300	19·300					17·630	17·560	17·570	17·590
52·0	18·650	18·880	19·100	19·295	19·300					17·630	17·560	17·590	17·590
57·0	18·680	18·910	19·150	19·300	19·300					17·650	17·560	17·620	17·580
Therm.	81°1	81°0	81°0	82°0	82°7	83°9	85°0	86°0	86°5	87°0	87°0	86°4	85°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·43·00	2·03·20	1·31·00	0·35·10	−0·04·60					−0·21·75	−0·24·75	−0·20·80	−0·11·40
8·0	1·43·00	2·03·20	1·23·80	0·35·10	−0·04·60					−0·21·75	−0·24·75	−0·20·80	−0·11·40
13·0	1·43·00	2·03·20	1·17·00	0·21·55	−0·13·15					−0·21·75	−0·24·75	−0·16·90	−0·11·40
18·0	1·43·00	2·03·60	1·17·00	0·21·55	−0·13·15					−0·21·75	−0·24·75	−0·16·90	−0·11·40
23·0	1·43·00	1·47·60	1·17·00	0·21·55	−0·19·75					−0·18·50	−0·24·75	−0·16·90	−0·11·40
28·0	1·43·00	1·47·60	1·17·00	0·21·55	−0·19·75	−1·09·70	−1·26·70	−1·05·90	−0·31·85	−0·18·50	−0·24·75	−0·16·90	−0·04·00
33·0	1·43·00	1·47·60	1·06·10	0·13·50	−0·26·45					−0·18·50	−0·24·75	−0·11·40	−0·04·00
38·0	1·43·00	1·47·60	1·01·45	0·13·50	−0·26·45					−0·18·50	−0·20·80	−0·11·40	−0·04·00
43·0	1·43·00	1·47·90	1·01·45	0·13·50	−0·26·45					−0·18·50	−0·20·80	−0·11·40	−0·04·00
48·0	1·43·00	1·38·70	1·01·45	0·00·70	−0·34·75					−0·18·50	−0·20·80	−0·11·40	−0·04·00
53·0	1·43·00	1·38·70	0·42·45	0·00·70	−0·34·75					−0·18·50	−0·20·80	−0·11·40	−0·02·80
58·0	2·03·20	1·31·00	0·35·10	0·00·70	−0·42·35	−1·19·50	−1·17·60	−0·37·50	−0·21·75	−0·24·75	−0·20·80	−0·11·40	−0·02·80
Therm.	82°9	82°0	81°7	81°6	82°0	83°0	84°1	85°5	86°3	87°2	87°7	87°0	86°4

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17·13	17·23	16·14	14·99	13·68	12·37	12·87	12·90	13·88	14·47	14·67	14·35
5·0	17·18	17·13	16·04	14·93					13·94	14·47	14·73	14·30
10·0	17·18	17·08	16·04	14·78					13·99	14·47	14·62	14·30
15·0	17·18	16·97	15·97	14·62					14·04	14·52	14·57	14·25
20·0	17·23	16·82	15·77	14·47					14·09	14·62	14·52	14·20
25·0	17·28	16·76	15·51	14·47					14·14	14·73	14·47	14·20
30·0	17·34	16·56	15·51	14·35	12·90	12·37	12·78	13·00	14·20	14·73	14·47	14·20
35·0	17·34	16·56	15·40	14·20					14·30	14·73	14·47	14·14
40·0	17·34	16·45	15·30	13·99					14·47	14·73	14·47	14·09
45·0	17·34	16·30	15·19	13·94					14·47	14·73	14·47	13·94
50·0	17·28	16·30	15·19	13·78					14·52	14·67	14·47	13·94
55·0	17·23	16·30	14·99	13·73					14·47	14·62	14·40	1394

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	33·290	33·490	33·650	33·700	33·690	32·950	32·480	32·250	31·900	31·600	31·700	31·800
7·0	33·250	33·540	33·680	33·700					31·860	31·600	31·700	31·800
12·0	33·260	33·600	33·690	33·680					31·840	31·620	31·700	31·800
17·0	33·300	33·650	33·690	33·650					31·830	31·660	31·700	31·800
22·0	33·300	33·690	33·700	33·650					31·800	31·700	31·700	31·800
27·0	33·310	33·680	33·700	33·690					31·790	31·700	31·700	31·800
32·0	33·340	33·630	33·700	33·730	33·350	32·620	32·400	32·100	31·760	31·700	31·700	31·800
37·0	33·330	33·650	33·700	33·750					31·730	31·700	31·700	31·790
42·0	33·370	33·650	33·750	33·790					31·690	31·700	31·700	31·780
47·0	33·400	33·690	33·790	33·790					31·660	31·700	31·730	31·760
52·0	33·400	33·640	33·790	33·730					31·640	31·720	31·750	31·740
57·0	33·450	33·610	33·750	33·700					31·600	31·700	31·780	31·720
Therm.	77°3	77°9	78°3	79°7	80°1	82°4	84°0	84°4	84°3	84°2	84°2	83°9

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°16·40	2°16·39	2°16·46	2°16·58	2°16·06	2°16·70	2°16·34	2°16·46	2°15·72	2°16·39	2°16·52	2°16·46
8·0	2·16·40	2·16·25	2·16·60	2·16·58					2·15·58	2·16·46	2·16·66	2·16·46
13·0	2·16·61	2·16·22	2·16·40	2·16·52					2·15·58	2·16·53	2·16·66	2·16·32
18·0	2·16·67	2·16·33	2·16·75	2·16·66					2·16·41	2·16·53	2·16·66	2·16·39
23·0	2·16·71	2·16·27	2·16·75	2·16·66					2·16·39	2·16·59	2·16·66	2·16·39
28·0	2·16·61	2·16·13	2·16·71	2·16·46					2·16·46	2·16·52	2·16·66	2·16·39
33·0	2·16·54	2·16·20	2·16·47	2·16·46	2·16·28	2·16·78	2·16·18	2·16·38	2·16·46	2·16·59	2·16·66	2·16·39
38·0	2·16·53	2·16·27	2·16·32	2·16·46					2·16·46	2·16·59	2·16·66	2·16·46
43·0	2·16·53	2·16·22	2·16·47	2·16·60					2·16·32	2·16·59	2·16·66	2·16·43
48·0	2·16·53	2·16·51	2·16·51	2·16·26					2·16·35	2·16·59	2·16·59	2·16·40
53·0	2·16·53	2·16·80	2·16·21	2·16·26					2·16·46	2·16·59	2·16·53	2·16·55
58·0	2·16·39	2·16·80	2·16·29	2·16·22					2·16·46	2·16·59	2·16·53	2·16·48

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	15′628	14′592	13′219	11′293	10′471	10′471	9′716	10′471	11′815	13′219	13′630	13′630
5·0	15·245	15·610	14·386	12·944	10·951					12·050	13·219	13·630	13·630
10·0	15·348	15·623	14·219	12·876	10·814					12·188	13·287	13·562	13·493
15·0	15·382	15·450	14·179	12·533	10·814					12·326	13·355	13·493	13·493
20·0	15·382	15·280	14·179	12·533	10·814					12·463	13·425	13·287	13·355
25·0	15·314	15·280	14·145	12·360	10·814					12·463	13·562	13·355	13·219
30·0	15·553	15·142	13·974	12·188	10·471	10·436	10·128	9·785	11·293	12·533	13·630	13·355	13·150
35·0	15·519	15·004	13·837	12·119	10·471					12·738	13·664	13·399	13·219
40·0	15·416	14·936	13·700	11·845	10·196					12·876	13·630	13·596	13·219
45·0	15·623	14·887	13·562	11·569	10·265					12·944	13·630	13·562	13·150
50·0	15·623	14·723	13·219	11·501	10·299					13·013	13·630	13·562	13·159
55·0	15·623	14·592	13·219	11·501	10·402					13·150	13·596	13·630	13·081

" LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttinge Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·025	18·220	18·250	18·600	18·850	18·700	18·550	18·630	18·270	17·960	17·740	17·270	17·400
7·0	18·055	18·300	18·240	18·720	18·900					17·965	17·680	17·250	17·400
12·0	18·185	18·300	18·240	18·750	18·950					17·915	17·650	17·250	17·410
17·0	18·185	18·280	18·250	18·700	15·950					17·930	17·650	17·325	17·380
22·0	18·180	18·375	18·270	18·700	18·950					17·875	17·650	17·350	17·350
27·0	18·150	18·325	18·270	18·700	19·000					17·900	17·685	17·350	17·350
32·0	18·125	18·305	18·330	18·700	19·030	18·350	18·600	18·520	18·075	17·890	17·550	17·360	17·370
37·0	18·130	18·300	18·400	18·800	19·000					17·850	17·490	17·410	17·380
42·0	18·195	18·300	18·500	18·800	19·000					17·835	17·460	17·460	17·360
47·0	18·150	18·250	18·500	18·800	19·000					17·810	17·380	17·465	17·350
52·0	18·150	18·250	18·600	18·750	18·750					17·805	17·370	17·450	17·350
57·0	18·200	18·250	18·600	18·850	18·700					17·750	17·350	17·410	17·330
Therm.	82°6	82°8	83°0	84°0	84°7	84°0	84°9	86°0	86°1	86°2	86°8	86°5	85°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·16·10	2·02·80	1·14·50	0·16·75	−0·04·15					0·44·60	0·48·85	0·22·40	2·21·50
8·0	2·06·00	1·46·00	1·02·20	0·16·75	−0·04·15					0·44·60	0·44·45	0·13·40	2·14·20
13·0	2·06·00	1·46·00	1·02·20	0·16·75	−0·14·80					1·02·60	0·44·45	0·13·40	2·13·50
18·0	2·06·00	1·38·30	1·02·20	0·16·75	−0·14·80					1·02·60	0·44·45	0·09·00	2·13·50
23·0	2·06·00	1·38·30	1·02·20	0·16·75	−0·14·80					1·02·60	0·44·45	0·09·00	1·45·20
28·0	2·06·00	1·38·30	0·42·10	0·16·75	−0·25·30	0·26·90	0·10·00	0·11·60	0·46·85	0·48·90	0·44·45	0·14·00	1·45·20
33·0	2·02·80	1·30·30	0·42·10	0·16·75	−0·25·30					0·48·90	0·39·60	0·14·00	1·45·20
38·0	2·02·80	1·30·30	0·35·50	0·01·75	−0·25·30					1·04·80	0·39·60	0·14·00	1·45·20
43·0	2·02·80	1·20·60	0·35·50	0·01·75	−0·25·30					1·04·80	0·29·10	0·19·30	1·45·20
48·0	2·02·80	1·20·60	0·22·75	0·01·75	−0·15·55					1·04·80	0·29·10	0·19·30	1·41·50
53·0	2·02·80	1·14·50	0·22·75	0·01·75	−0·15·55					0·48·85	0·29·10	0·19·30	1·41·50
58·0	2·02·80	1·14·50	0·22·75	−0·04·15	−0·15·55	0·37·35	0·06·80	0·28·75	0·41·40	0·48·85	0·22·40	2·21·50	1·41·50
Therm.	84°0	83°0	83°3	83°5	83°8	84°0	84°5	85°2	85°7	86°0	86°9	87°0	86°2

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16'76	15'82	14'35	12'37	11'85	11'35	11'07	11'90	12'95	14'47	14'93	14'78
5·0	16·82	15·77	14·20	12·37					12·21	14·47	14·88	14·78
10·0	16·82	15·51	14·09	12·16					13·42	14·52	14·73	14·73
15·0	16·66	15·51	13·94	12·00					13·62	14·67	14·73	14·52
20·0	16·56	15·51	13·88	11·85					13·68	14·73	14·52	14·47
25·0	16·56	15·35	13·62	11·85					13·73	14·83	14·57	14·47
30·0	16·50	15·25	13·42	11·69	12·11	11·85	11·33	12·57	13·78	14·93	14·62	14·47
35·0	16·50	15·19	13·21	11·59					14·04	14·93	14·73	14·47
40·0	16·35	14·99	13·00	11·53					14·20	14·99	14·78	14·47
45·0	16·19	14·88	12·90	11·59					14·20	14·99	14·83	14·47
50·0	16·04	14·67	12·78	11·69					14·35	14·99	14·88	14·35
55·0	15·97	14·47	12·63	11·74					14·40	14·99	14·99	14·20

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	32·600	32·500	32·880	33·200	32·950	32·400	32·640	32·400	32·100	31·660	31·280	31·480
7·0	32·650	32·490	32·920	33·180					32·060	31·670	31·250	31·490
12·0	32·650	32·440	32·950	33·270					31·980	31·650	31·260	31·500
17·0	32·640	32·400	32·980	33·320					31·960	31·630	31·290	31·470
22·0	32·650	32·450	33·030	33·380					31·950	31·600	31·370	31·480
27·0	32·630	32·430	32·940	33·400					31·940	31·545	31·400	31·480
32·0	32·610	32·480	33·000	33·450	32·310	32·450	32·610	32·200	31·950	31·530	31·450	31·490
37·0	32·600	32·560	33·040	33·420					31·870	31·460	31·490	31·500
42·0	32·600	32·630	33·070	33·340					31·820	31·430	31·540	31·500
47·0	32·600	32·720	33·090	33·250					31·800	31·350	31·520	31·470
52·0	32·590	32·800	33·100	33·130					31·760	31·340	31·500	31·480
57·0	32·580	32·830	33·160	33·050					31·690	31·330	31·490	31·470
Therm.	79°9	80°1	81°7	81°8	82°2	83°0	84°0	84°6	84°0	84°3	84°1	83°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
8·0	2°16'42	2°16'54	2°16'46	2°16'11	2°16'44	2°16'44	2°16'55	2°16'30	2°16'38	2°16'60	2°16'73	2°16'73
8·0	2·16·29	2·16·34	2·16·32	2·15·91					2·16·58	2·16·46	2·16·73	2·16·73
13·0	2·16·27	2·16·34	2·16·26	2·16·20					2·16·58	2·16·53	2·16·66	2·16·59
18·0	2·16·25	2·16·27	2·15·91	2·16·35					2·16·72	2·16·45	2·16·60	2·16·59
23·0	2·16·22	2·16·42	2·16·05	2·16·49					2·16·85	2·16·53	2·16·53	2·16·46
28·0	2·16·51	2·16·52	2·16·17	2·16·49					2·16·85	2·16·66	2·16·46	2·16·32
33·0	2·16·66	2·16·49	2·16·29	2·16·30	2·16·41	2·16·10	2·16·05	2·16·11	2·16·77	2·16·73	2·16·46	2·16·39
38·0	2·16·52	2·16·51	2·16·51	2·16·30					2·16·55	2·16·62	2·16·49	2·16·46
43·0	2·16·60	2·16·51	2·16·38	2·16·17					2·16·40	2·16·59	2·16·70	2·16·60
48·0	2·16·58	2·16·52	2·16·24	2·16·28					2·16·46	2·16·59	2·16·66	2·16·53
53·0	2·16·39	2·16·32	2·16·18	2·16·27					2·16·39	2·16·59	2·16·66	2·16·67
58·0	2·16·40	2·16·46	2·16·32	2·16·37					2·16·53	2·16·56	2·16·59	2·16·60

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′966	16′858	16′515	14′625	14′179	12′876	11′569	11′019	10′607	11′501	11′879	13′837	13′219
5·0	16·172	17·201	16·172	14·592	14·249					11·535	12·188	13·837	13·219
10·0	16·515	17·201	16·034	14·592	13·906					11·604	12·188	13·837	13·287
15·0	16·584	17·270	15·828	14·626	13·906					11·501	12·290	13·630	13·355
20·0	16·653	17·133	15·691	14·592	13·562					11·501	12·326	13·425	13·493
25·0	16·653	17·064	15·553	14·592	13·219					11·604	12·533	13·287	13·562
30·0	16·721	16·926	15·553	14·592	13·219	11·845	11·501	10·710	11·225	11·569	12·806	13·287	13·562
35·0	16·721	16·926	15·372	14·523	13·219					11·810	12·944	13·287	13·664
40·0	16·789	16·926	15·280	14·249	13·219					11·945	13·253	13·219	13·562
45·0	16·926	16·996	14·936	14·179	13·219					11·913	13·287	13·287	13·562
50·0	16·926	16·996	14·832	14·111	12·876					11·913	13·355	13·287	13·768
55·0	16·892	16·721	14·694	14·179	12·876					11·845	13·630	13·219	13·940

LARGE HORIZONTAL MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·000	18·080	18·250	18·650	18·800	18·850	18·800	19·022	18·860	18·260	17·840	16·960	17·090
7·0	18·040	18·070	18·300	18·630	18·850					18·180	17·760	16·970	17·070
12·0	18·050	18·065	18·440	18·675	18·900					18·160	17·630	17·040	17·040
17·0	18·080	18·050	18·540	18·600	18·900					18·170	17·690	17·100	17·000
22·0	18·120	18·050	18·600	18·600	18·900					18·130	17·660	17·135	17·000
27·0	18·130	18·050	18·610	18·600	18·925					18·140	17·550	17·150	16·960
32·0	18·160	18·040	18·550	18·600	19·000	18·750	19·000	18·960	18·510	18·060	17·450	17·150	16·940
37·0	18·160	18·060	18·600	18·655	19·000					18·000	17·345	17·150	16·950
42·0	18·145	18·080	18·600	18·800	18·900					17·950	17·160	17·150	16·975
47·0	18·040	18·120	18·600	18·800	18·950					17·880	17·050	17·140	16·960
52·0	18·000	18·140	18·600	18·800	19·000					17·900	16·990	17·120	16·920
57·0	18·035	18·220	18·600	18·800	18·900					17·870	16·950	17·110	16·840
Therm.	81°5	81°8	82°3	82°3	88°0	88°1	84°0	84°0	84°3	84°9	81°5	84°5	84°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·18·00	1·47·50	0·37·00	0·06·25	-0·08·00					0·34·05	0·44·50	1·17·40	0·25·80
8·0	2·18·00	1·38·90	0·26·80	0·06·25	-0·20·10					0·34·05	0·44·50	0·48·20	0·25·80
13·0	2·18·00	1·38·90	0·17·80	0·06·25	-0·20·10					0·34·05	0·44·50	0·41·20	0·25·80
18·0	2·18·00	1·26·80	0·10·80	-0·01·25	-0·20·10					0·34·05	0·44·50	0·33·70	0·34·80
23·0	2·18·00	1·26·80	0·06·30	-0·01·25	-0·20·10					0·34·05	1·03·60	0·33·70	0·34·80
28·0	2·18·00	1·19·30	0·06·30	-0·01·25	-0·27·50	-0·39·00	-0·04·20	0·04·20	0·34·05	0·34·05	1·03·60	0·25·80	0·34·80
33·0	2·10·70	1·12·90	0·06·30	-0·01·25	-0·27·50					0·39·75	1·02·60	0·25·80	0·34·80
38·0	2·10·70	1·12·90	0·06·30	-0·12·60	-0·21·50					0·39·75	1·18·40	0·25·80	0·34·80
43·0	2·10·70	1·12·90	0·06·30	-0·12·60	-0·21·65					0·42·45	1·18·40	0·25·80	0·34·80
48·0	2·10·70	0·49·30	0·06·30	-0·12·60	-0·21·65					0·42·45	1·18·40	0·25·80	0·34·80
53·0	2·10·70	0·49·30	0·06·30	-0·12·60	-0·21·65					0·37·45	1·18·40	0·25·80	0·39·70
58·0	2·04·00	0·37·00	0·06·25	-0·08·00	-0·21·65	-0·20·05	0·03·85	0·19·00	0·34·05	0·37·45	1·17·40	0·25·80	0·39·70
Therm.	82°5	82°0	82°5	82°5	82°5	82°6	83°2	83°7	84°2	85°2	84°7	84°9	84°9

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	18′33	18′01	16′04	15′51	14′25	13′42	12′78	12′42	13′05	13′47	15′40	14′78
5·0	18·44	17·60	16·04	15·51					13·16	13·62	15·45	14·78
10·0	18·49	17·60	16·04	15·30					13·16	13·88	15·25	14·98
15·0	18·49	17·34	16·04	15·09					13·16	13·94	15·19	14·99
20·0	18·54	17·08	16·04	14·99					13·16	13·94	14·99	14·99
25·0	18·49	17·02	16·04	14·78					13·21	14·25	14·99	14·99
30·0	18·49	16·82	15·97	14·73	13·42	12·90	12·47	13·00	13·16	14·47	14·88	14·99
35·0	18·44	16·56	15·82	14·73					13·26	14·62	14·83	14·99
40·0	18·39	16·50	15·77	14·67					13·42	14·93	14·78	15·09
45·0	18·49	16·30	15·71	14·52					13·52	14·99	14·83	15·25
50·0	18·49	16·24	15·61	14·47					13·57	14·99	14·83	15·40
55·0	18·23	16·09	15·77	14·47					13·42	15·25	14·78	15·45

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	31·800	31·700	32·550	32·500	32·540	32·550	32·780	32·440	31·900	31·460	30·400	30·600
7·0	31·760	31·820	32·500	32·600					31·860	31·420	30·440	30·550
12·0	31·790	31·870	32·520	32·720					31·790	31·300	30·430	30·500
17·0	31·760	31·980	32·480	32·840					31·750	31·280	30·480	30·470
22·0	31·790	32·150	32·450	32·800					31·700	31·220	30·530	30·480
27·0	31·640	32·320	32·400	32·820					31·700	31·030	30·590	30·430
32·0	31·600	32·360	32·480	32·800	32·500	32·800	32·670	32·040	31·700	30·930	30·600	30·450
37·0	31·650	32·400	32·540	32·780					31·650	30·800	30·600	30·480
42·0	31·620	32·380	32·600	32·760					31·570	30·700	30·600	30·480
47·0	31·630	32·410	32·630	32·810					31·500	30·500	30·600	30·480
52·0	31·640	32·470	32·650	32·690					31·500	30·400	30·600	30·400
57·0	31·690	32·490	32·500	32·600					31·490	30·400	30·600	30·350
Therm.	79°6	80°0	80°0	80°3	81°0	82°0	82°5	83°2	83°0	83°1	83°0	82°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	2°15′93	2°16′31	2°16′00	2°16′13	2°15′98	2°16′10	2°15′84	2°15′86	2°16′03	2°16′12	2°15′93	2°16′15
8·0	2·16·27	2·16·15	2·15·96	2·16·20					2·12·07	2·16·29	2·15·93	2·16·18
13·0	2·16·27	2·16·11	2·16·11	2·15·86					2·16·13	2·16·00	2·16·08	2·16·25
18·0	2·16·34	2·16·05	2·16·15	2·15·86					2·16·03	2·15·71	2·16·01	2·16·31
23·0	2·16·34	2·16·06	2·16·11	2·15·94					2·16·03	2·15·85	2·15·94	2·16·30
28·0	2·16·27	2·15·92	2·16·11	2·15·74					2·16·13	2·15·91	2·15·96	2·16·37
33·0	2·16·14	2·15·92	2·16·25	2·15·89	2·16·24	2·16·03	2·15·67	2·15·76	2·16·10	2·16·08	2·16·10	2·16·37
38·0	2·16·00	2·15·88	2·16·18	1·16·03					2·16·20	2·16·04	2·16·25	2·16·33
43·0	2·16·00	2·15·79	2·15·91	2·16·18					2·16·24	2·16·35	2·16·25	2·16·23
48·0	2·16·20	2·15·59	2·15·84	2·16·18					2·16·30	2·16·25	2·16·18	2·16·08
53·0	2·16·20	2·15·77	2·15·99	2·16·85					2·16·30	2·15·87	2·16·25	2·16·01
58·0	2·16·22	2·15·77	2·16·13	2·15·98					2·16·24	2·15·87	2·16·18	2·16·03

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′172	17′270	16′721	14′592	12′876	11′501	10′471	10′814	11′845	12′876	13′906	14′728	14′454
5·0	16·172	17·304	16·618	14·317	12·533					12·876	13·974	14·728	14·317
10·0	16·618	17·270	16·584	14·076	12·533					13·013	14·042	14·728	14·249
15·0	16·687	17·339	16·447	13·906	12·265					13·081	14·042	14·728	14·042
20·0	16·687	17·339	16·172	13·906	12·188					13·291	14·179	14·728	13·974
25·0	16·721	17·270	15·966	13·906	12·153					13·219	14·317	14·728	13·906
30·0	16·721	17·270	15·966	13·871	11·845	11·122	10·814	11·157	12·188	13·355	14·454	14·728	13·837
35·0	16·789	17·064	15·628	13·562	11·845					13·562	14·488	14·728	13·768
40·0	17·133	17·064	15·348	13·321	11·845					13·630	14·592	14·660	13·630
45·0	17·133	17·133	15·280	13·219	11·741					13·630	14·660	14·660	13·630
50·0	17·133	17·133	15·108	13·219	11·501					13·768	14·660	14·592	13·425
55·0	17·201	17·064	14·626	12·876	11·501					13·906	14·728	14·451	13·425

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*,

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·770	18·050	18·350	18·650	18·775	18·650	18·550	18·270	18·100	17·770	17·450	17·210	17·290
7·0	17·840	18·040	18·290	18·750	18·750					17·760	17·420	17·240	17·290
12·0	17·855	18·050	18·300	18·750	18·750					17·730	17·350	17·220	17·270
17·0	17·860	18·060	18·310	18·750	18·700					17·710	17·350	17·270	17·300
22·0	17·860	18·110	18·310	18·750	18·750					17·697	17·360	17·280	17·300
27·0	17·860	18·160	18·450	18·750	18·750					17·650	17·340	17·280	17·280
32·0	17·860	18·120	18·450	18·750	18·750	18·650	18·450	18·190	17·960	17·600	17·310	17·290	17·290
37·0	17·860	18·160	18·500	18·800	18·850					17·580	17·250	17·260	17·260
42·0	18·000	18·200	18·500	18·750	18·850					17·515	17·250	17·260	17·230
47·0	18·050	18·290	18·550	18·750	18·750					17·510	17·250	17·280	17·240
52·0	18·050	18·305	18·550	18·760	18·750					17·515	17·250	17·290	17·270
57·0	18·010	18·360	18·650	18·750	18·750					17·460	17·240	17·300	17·250
Therm.	83°3	83°3	83°4	84°5	85°5	86°2	86°7	86°8	86°6	87°0	87°2	86°7	86°0

VERTICAL FORCE MAGNETOMETER *(in Marometer Readings)*,

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·45·20	3·27·20	2·29·20	1·15·10	0·08·90					2·33·80	2·24·45	2·19·20	1·49·30
8·0	3·45·20	3·27·20	2·19·10	1·03·35	0·08·90					2·33·80	2·21·15	2·14·40	1·49·30
13·0	3·45·20	3·19·70	2·19·10	1·03·55	0·08·90					2·33·80	2·24·15	2·14·40	1·49·30
18·0	3·45·20	3·19·70	2·11·60	0·43·50	0·08·90					2·33·80	2·24·15	2·14·40	1·36·10
23·0	3·45·20	3·19·70	2·11·60	0·43·50	0·08·90					2·33·80	2·26·45	2·14·40	1·36·10
28·0	3·45·20	3·10·50	2·02·28	0·43·50	0·08·90	0·18·25	1·16·10	1·49·25	2·22·85	2·33·80	2·26·45	2·14·40	1·27·30
33·0	3·45·20	3·03·70	2·02·28	0·33·30	0·08·90					2·33·80	2·26·45	2·14·40	1·27·30
38·0	3·37·80	3·03·70	1·34·50	0·33·30	0·08·90					2·33·80	2·26·45	2·14·40	1·19·00
43·0	3·37·80	2·44·60	1·34·50	0·33·30	0·00·25					2·28·30	2·19·20	2·14·40	1·19·00
48·0	3·37·80	2·39·10	1·34·50	0·22·65	0·00·25					2·24·45	2·19·20	2·06·10	1·19·00
53·0	3·32·10	2·39·10	1·20·75	0·16·60	0·00·25					2·24·45	2·19·20	2·06·10	1·12·20
58·0	3·37·20	2·29·20	1·15·10	0·16·60	0·06·70	0·34·90	1·26·90	2·14·10	2·33·80	2·24·45	2·19·20	2·49·30	1·12·20
Therm.	84°8	84°4	84°2	84°5	85°0	85°5	86°1	86°5	86°7	87°7	88°0	87°5	86°9

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	18'80	18'28	16'30	14'47	13'21	12'37	12'47	13'42	14'47	15'56	16'14	15'92
5·0	18·85	16·13	16·04	14·47					14·52	15·61	16·09	15·82
10·0	18·80	18·06	15·97	14·35					14·67	15·66	16·09	15·71
15·0	18·80	17·96	15·77	14·20					14·78	15·71	16·14	15·51
20·0	18·85	17·86	15·56	13·99					14·93	15·76	16·14	15·51
25·0	18·80	17·70	15·40	13·83					14·99	15·97	16·14	15·30
30·0	18·75	17·60	15·25	13·52	12·63	12·37	12·90	14·99	15·04	16·04	16·09	15·25
35·0	18·65	17·23	15·14	13·42					15·19	16·04	16·04	15·19
40·0	18·65	17·08	14·99	13·42					15·25	16·09	16·04	14·99
45·0	18·65	16·87	14·93	13·36					15·25	16·19	16·04	14·99
50·0	18·65	16·71	14·78	13·31					15·30	16·09	16·04	14·99
55·0	18·54	16·50	14·62	13·26					15·45	16·04	15·97	14·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	31·600	31·850	32·080	32·250	32·100	32·000	31·700	31·510	31·140	30·820	30·750	30·800
7·0	31·600	31·800	32·080	32·280					31·120	30·800	30·800	30·820
12·0	31·600	31·780	32·100	32·250					31·100	30·800	30·800	30·830
17·0	31·620	31·750	32·100	32·230					31·070	30·800	30·800	30·840
22·0	31·650	31·700	32·100	32·200					31·030	30·820	30·800	30·820
27·0	31·700	31·730	32·120	32·210					31·000	30·800	30·800	30·830
32·0	31·760	31·800	32·150	32·240	32·100	31·900	31·600	31·300	30·970	30·800	30·780	30·840
37·0	31·800	31·830	32·180	32·290					30·900	30·750	30·750	30·850
42·0	31·820	31·850	32·200	32·300					30·900	30·740	30·800	30·890
47·0	31·880	31·870	32·220	32·200					30·900	30·720	30·820	30·900
52·0	31·900	31·900	32·240	32·170					30·870	30·800	30·860	30·900
57·0	31·890	31·970	32·210	32·140					30·850	30·750	30·800	30·880
Therm.	81°7	81°8	82°3	83°4	84°1	85°6	86°0	85°6	85°6	85°3	85°1	84°1

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°16'34	2°16'51	2°16'40	2°16'26	2°16'32	2°16'44	2°16'49	2°16'67	2°16'83	2°16'89	2°16'54	2°16'69
8·0	2·16·37	2·16·55	2·16·27	2·15·91					2·16·69	2·16·93	2·16·68	2·16·56
13·0	2·16·34	2·16·66	2·16·17	2·16·20					2·16·68	2·17·00	2·16·68	2·16·77
18·0	2·16·41	2·16·53	2·16·15	2·16·21					2·16·60	2·16·85	2·16·68	2·16·85
23·0	2·16·41	2·16·39	2·16·43	2·16·29					2·16·60	2·16·70	2·16·54	2·16·93
28·0	2·16·34	2·16·33	2·16·79	2·16·54					2·16·60	2·16·56	2·16·54	2·16·87
33·0	2·16·48	2·16·47	2·16·83	2·16·38	2·16·97	2·16·78	2·16·84	2·16·72	2·16·60	2·16·40	2·16·68	2·16·80
38·0	2·16·27	2·16·42	2·16·52	2·16·41					2·16·80	2·16·44	2·16·68	2·16·87
43·0	2·16·27	2·16·29	2·16·28	2·16·41					2·16·73	2·16·54	2·16·75	2·16·73
48·0	2·16·34	2·16·36	2·16·32	2·16·42					2·16·73	2·16·61	2·16·75	2·16·73
53·0	2·16·40	2·16·48	2·16·46	2·16·18					2·16·87	2·16·61	2·16·68	2·16·53
58·0	2·16·56	2·16·77	2·16·12	2·16·32					2·16·87	2·16·68	2·16·69	2·16·67

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	16′515	16′618	15′108	12′876	11′501	10′641	11′157	12′119	11′345	13′287	13′493	13′493
5·0	15·416	16·653	16·618	14·694	12·806					12·533	13·287	13·562	13·425
10·0	15·553	16·653	16·584	14·592	12·533					12·806	13·287	13·562	13·355
15·0	15·416	16·721	16·378	14·420	12·533					12·910	13·287	13·562	13·287
20·0	15·553	16·858	16·102	14·076	12·533					13·150	13·389	13·562	13·219
25·0	15·623	16·996	15·966	13·906	12·533					13·150	13·389	13·562	13·219
30·0	16·000	16·996	15·966	13·664	12·256	10·814	10·985	11·639	11·845	13·219	13·425	13·562	13·219
35·0	16·034	16·892	15·966	13·389	11·845					13·253	13·425	13·562	13 219
40·0	16·034	16·755	15·943	13·219	11·845					13·253	13·287	13·493	13·219
45·0	16·172	16·721	15·691	13·219	11·845					13·253	13·287	13·425	13·219
50·0	16·309	16·687	15·460	13·184	11·776					13·287	13·425	13·355	13·219
55·0	16·412	16·653	15·280	12·876	11·569					13·355	13·425	13·355	13·219

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·160	18·420	18·580	18·450	18·850	18·700	18·600	18·400	18·150	17·615	17·410	17·410	17·460
7·0	18·170	18·440	18·600	18·550	18·825					17·610	17·400	17·400	17·460
12·0	18·210	18·450	18·650	18·650	18·900					17·570	17·400	17·410	17·460
17·0	18·160	18·460	18·610	18·650	18·820					17·580	17·400	17·420	17·460
22·0	18·155	18·550	18·610	18·650	18·800					17·550	17·400	17·420	17·460
27·0	18·250	18·580	18·610	18·755	18·800					17·540	17·400	17·440	17·430
32·0	18·270	18·600	18·550	18·750	18·800	18·725	18·465	18·270	17·960	17·530	17·400	17·440	17·410
37·0	18·270	18·610	18·550	18·750	18·800					17·540	17·410	17·430	17·410
42·0	18·350	18·600	18·450	18·800	18·800					17·460	17·410	17·460	17·400
47·0	18·350	18·590	18·450	18·800	18·800					17·440	17·410	17·470	17·380
52·0	18·350	18·580	18·350	18·820	18·800					17·420	17·410	17·480	17·370
57·0	18·370	18·550	18·400	18·850	18·700					17·400	17·410	17·450	17·350
Therm.	83·0	83·3	84·0	85·2	85·9	86·2	86·8	87·2	87·1	87·3	87·5	87·1	86·5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·25·20	0·37·30	−0·00·50	−1·06·90	−1·28·30					0·06·00	0·01·00	0·01·50	0·09·20
8·0	0·25·20	0·37·30	−0·08·50	−1·06·90	−1·28·30					0·06·00	0·01·00	0·01·50	0·09·20
13·0	0·25·20	0·33·60	−0·17·90	−1·13·90	−1·28·30					0·06·00	−0·00·80	0·01·50	0·09·20
18·0	0·32·75	0·33·60	−0·17·90	−1·13·90	−1·28·30					0·06·00	−0·00·80	0·01·50	0·09·20
23·0	0·32·75	0·33·60	−0·28·00	−1·13·90	−1·28·30					0·06·00	−0·00·80	0·01·50	0·09·20
28·0	0·37·30	0·25·00	−0·28·00	−1·13·90	−1·28·30	−2·04·10	−0·30·80	−0·02·20	0·11·00	0·06·00	−0·00·80	0·01·50	0·09·20
33·0	0·37·30	0·25·00	−0·28·00	−1·19·00	−1·36·90					0·06·00	−0·00·80	0·01·50	0·09·20
38·0	0·37·30	0·17·90	−0·35·70	−1·19·00	−1·36·90					0·06·00	−0·00·80	0·01·50	0·09·20
43·0	0·37·30	0·17·90	−0·35·70	−1·19·00	−1·36·90					0·06·00	−0·00·80	0·01·50	0·09·20
48·0	0·37·30	0·08·10	−0·35·70	−1·19·00	−1·36·90					0·06·00	−0·00·80	0·01·50	0·09·20
53·0	0·37·30	0·08·10	−0·46·25	−1·19·00	−1·36·90					0·06·00	−0·00·80	0·01·50	0·09·20
58·0	0·37·30	−0·00·50	−0·46·25	−1·19·00	−1·39·60	−1·44·45	−1·00·90	0·14·10	0·06·00	0·01·00	0·01·50	0·09·20	−0·00·70
Therm.	84·3	84·0	84·4	84·8	85·5	85·8	86·5	87·0	87·2	87·8	88·4	88·4	87·5

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′60	17′80	16′56	14′25	12′90	12′37	12′83	13′42	13′94	14′73	14′99	14′93
5·0	17·70	17·80	16·30	14·04					14·14	14·73	14·99	14·99
10·0	17·86	17·65	16·04	13·94					14·20	14·73	14·99	14·78
15·0	17·91	17·53	15·82	13·94					14·47	14·73	14·99	14·78
20·0	18·06	17·48	15·51	13·88					14·47	14·73	14·99	14·73
25·0	18·13	17·34	15·30	13·68					14·47	14·78	14·99	14·67
30·0	18·13	17·18	15·09	13·47	12·27	12·42	13·00	13·42	14·47	14·83	14·99	14·62
35·0	18·13	17·08	14·99	13·42					14·52	14·73	14·99	14·62
40·0	18·13	17·08	14·78	13·42					14·67	14·73	14·99	14·67
45·0	18·13	17·08	14·47	13·31					14·73	14·78	14·99	14·62
50·0	18·01	16·92	14·47	13·10					14·73	14·88	14·93	14·62
55·0	17·86	16·76	14·40	13·00					14·73	14·99	14·88	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	31·880	31·900	31·600	32·150	32·000	31·900	31·520	31·480	30·820	30·650	30·720	30·890
7·0	31·900	31·900	31·700	32·100					30·800	30·700	30·730	30·850
12·0	31·900	31·940	31·810	32·100					30·800	30·700	30·780	30·910
17·0	31·900	31·950	31·820	32·100					30·800	30·700	30·790	39·930
22·0	31·900	31·900	31·900	32·100					30·810	30·700	30·800	30·900
27·0	31·920	31·900	31·970	32·150					30·800	30·700	30·800	30·900
32·0	31·920	31·880	32·020	32·180	31·950	31·705	31·660	31·250	30·800	30·690	30·800	30·900
37·0	31·930	31·760	32·050	32·230					30·760	30·700	30·820	30·900
42·0	31·930	31·680	32·090	32·200					30·720	30·700	30·830	30·900
47·0	31·930	31·590	32·150	32·200					30·700	30·730	30·850	30·900
52·0	31·930	31·530	32·130	32·150					30·660	30·720	30·870	30·880
57·0	31·930	31·570	32·140	32·080					30·600	30·740	30·880	30·850
Therm.	81°3	82°0	83°6	84°0	84°2	86°0	86°5	86°0	86°0	86°0	86°0	85°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	2°18′32	2°18′28	2°18′21	2°17′99	2°17′90	2°18′00	2°18′14	2°18′24	2°17′68	2°18′11	2°18′02	2°18′31
8·0	2·18·46	2·18·28	2·17·93	2·18·20					2·18·50	2·18·11	2·18·08	2·18·11
13·0	2·18·46	2·18·39	2·17·97	2·18·07					2·18·49	2·18·11	2·18·09	2·18·03
18·0	2·18·38	2·18·19	2·17·80	2·18·36					2·18·26	2·18·11	2·18·09	2·17·97
23·0	2·18·52	2·18·05	2·17·75	2·18·36					2·18·40	2·18·21	2·18·09	2·18·04
28·0	2·18·52	2·18·06	2·17·86	2·18·36					2·18·11	2·18·21	2·18·09	2·18·04
33·0	2·18·52	2·18·06	2·17·95	2·18·23	2·18·22	2·18·25	2·17·90	2·17·80	2·18·18	2·18·25	2·18·09	2·18·04
38·0	2·18·41	2·18·21	2·17·92	2·17·82					2·18·21	2·18·25	2·18·09	2·18·04
43·0	2·18·28	2·18·33	2·17·90	2·17·97					2·18·21	2·18·11	2·18·17	2·18·04
48·0	2·18·24	2·18·21	2·18·04	2·17·97					2·18·07	2·18·11	2·18·11	2·18·04
53·0	2·18·35	2·18·13	2·18·00	2·18·94					2·18·11	2·18·11	2·18·17	2·18·04
58·0	2·18·31	2·18·09	2·17·84	2·17·82					2·18·18	2·17·96	2·18·17	2·18·04

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	15′328	15′280	14′762	12′944	11′845	11′157	11′088	11′569	12′533	13′187	13′081	13′115
5·0	15·280	15·828	15·211	14·592	12·703					12·601	13·150	13·081	13·013
10·0	15·416	15·828	15·142	14·592	12·533					12·669	13·219	13·081	13·219
15·0	15·485	15·760	15·142	14·351	12·188					12·669	13·219	13·150	13·150
20·0	15·623	15·760	15·211	14·351	12·188					12·772	13 219	13·150	13·150
25·0	15·623	15·691	15·211	14·008	11·947					12·876	13·219	13·150	13·184
30·0	15·760	15·623	15·211	13·906	12·015	11·501	10·905	11·157	12·188	13·013	13·150	13·287	13·287
35·0	15·828	15·623	15·108	13·900	11·862					13·081	13·150	13·355	13·253
40·0	15·897	15·553	15·004	13·562	11·845					13·081	13·081	13·321	13·081
45·0	15·897	15·553	15·004	13·321	11·845					13·081	13·081	13·355	12·876
50·0	15·828	15·348	14·936	13·219	11·945					13·150	13·081	13·150	13·013
55·0	15·828	15·348	14·867	13·150	11·845					13·187	13·081	13·081	12·910

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·910	18·175	18·500	18·850	19·000	19·050	18·800	18·520	18·250	17·810	17·630	17·610	17·505
7·0	17·940	18·240	18·520	18·860	19·050					17·790	17·625	17·625	17·530
12·0	17·950	18·250	18·550	18·852	19·000					17·760	17·620	17·640	17·510
17·0	17·950	18·270	18·570	18·900	19·050					17·760	17·610	17·640	17·460
22·0	18·040	18·305	18·640	18·936	19·060					17·760	17·610	17·680	17·480
27·0	18·040	18·320	18·650	18·950	19·050					17·750	17·600	17·610	17·490
32·0	18·040	18·370	18·650	18·950	19·050	18·890	18·700	18·400	17·950	17·740	17·600	17·560	17·490
37·0	18·050	18·400	18·750	18·950	19·000					17·720	17·650	17·550	17·500
42·0	18·125	18·400	18·750	18·990	19·025					17·720	17·640	17·550	17·500
47·0	18·115	18·415	18·750	19·000	19·050					17·670	17·600	17·530	17·460
52·0	18 170	18·445	18·750	19·000	19·050					17·645	17·600	17·545	17·450
57·0	18·185	18·480	18·800	19·000	19·050					17·650	17·580	17·475	17·480
Therm.	84°6	84°8	85°6	86°0	87°0	88°0	88°0	88°0	88°2	88°0	87°5	86°0	85°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·34·30	0·35·60	0·00·20	-0·43·60	-2·03·00					-0·47·95	-0·28·95	-0·27·40	0·01·10
8·0	0·34·30	0.35·60	0·00·20	-1·04·55	-2·03·00					-0·43·80	-0·28·95	-0·27·40	0·01·10
13·0	0·34·30	0·28·30	-0·10·40	-1·04·55	-2·03·00					-0·37·90	-0·28·95	-0·20·80	0·01·10
18·0	0·34·30	0·28·30	-0·10·40	-1·09·80	-2·13·00					-0·37·90	-0·28·95	-0·20·80	0·01·10
23·0	0·34·30	0·20·30	-0·10·40	-1·09·80	-2·13·00					-0·34·00	-0·28·95	-0·20·80	0·01·10
28·0	0·34·30	0·20·30	-0·25·40	-1·22·30	-2·13·00	-2·33·50	-2·39·25	-2·34·55	-1·40·10	-0·34·00	-0·28·95	-0·14·00	-0·08·30
33·0	0·34·30	0·12·10	-0·25·40	-1·22·30	-2·13·00					-0·29·70	-0·28·95	-0·08·80	-0·08·30
38·0	0·41·10	0·12 10	-0·29·95	-1·28·35	-2·13·00					-0·29·70	-0·34·90	-0·08·80	-0·14·60
43·0	0·41·10	0·07·00	-0·29·95	-1·37·50	-2·13·00					-0·29·70	-0·34·90	-0·08·80	-0·14·60
48·0	0·41·10	0·07·00	-0·29·95	-1·37·50	-2·13·00					-0·33·80	-0·27·40	-0·02·10	-0·24·20
53·0	0·41·10	0·00·20	-0·29·95	-1·46·50	-2·16·35					-0·33·80	-0·27·40	-0·02·10	-0·24·20
58·0	0·35·60	0·00·20	-0·43·60	-1·46·50	-2·16·35	-2·40·60	-3·07·95	-2·18·40	-1·03·55	-0·28·95	-0·27·40	0·01·10	-0·23·80
Therm.	85°5	85°2	85°5	85°9	86°5	87°4	87°8	88°0	88°2	88°0	87°2	86°8	85°3

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0.0	17'18	16'76	16'19	14'40	13'42	12'68	12'37	12'90	13'94	14'47	14'47	14'40
5.0	17.28	16.61	16.04	14.20					13.99	14.47	14.47	14.35
10.0	17.18	16.56	15.97	13.99					14.14	14.47	14.47	14.47
15.0	17.13	16.56	15.82	13.94					14.14	14.52	14.40	14.47
20.0	17.08	16.56	15.61	13.68					14.20	14.52	14.47	14.47
25.0	17.08	16.56	15.51	13.68					14.35	14.47	14.40	14.47
30.0	17.02	16.56	15.51	13.47	13.16	12.37	12.37	13.52	14.40	14.47	14.40	14.47
35.0	17.08	16.56	15.40	13.42					14.47	14.47	14.40	14.47
40.0	17.02	16.56	15.19	13.42					14.47	14.47	14.35	14.47
45.0	16.97	16.50	14.99	13.42					14.47	14.47	14.35	14.47
50.0	16.82	16.35	14.78	13.42					14.47	14.47	14.35	14.47
55.0	16.76	16.30	14.62	13.42					14.52	14.47	14.35	14.35

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2.0	31.400	31.600	31.900	32.030	32.100	31.900	31.620	31.380	30.990	30.800	30.990	31.260
7.0	31.400	31.630	31.920	32.040					30.980	30.800	30.990	31.250
12.0	31.480	31.650	31.930	32.050					30.980	30.800	31.100	31.190
17.0	31.500	31.680	31.950	32.050					30.990	30.800	31.100	31.120
22.0	31.500	31.700	31.970	32.050					30.950	30.780	31.100	31.070
27.0	31.500	31.730	32.000	32.100					30.930	30.770	31.150	31.040
32.0	31.500	31.750	32.000	32.150	32.050	31.700	31.500	31.100	30.920	30.780	31.180	31.000
37.0	31.490	31.780	32.000	32.150					30.850	30.850	31.230	30.990
42.0	31.530	31.800	32.000	32.150					30.890	30.930	31.270	30.960
47.0	31.570	31.820	32.000	32.130					30.820	31.000	31.260	30.920
52.0	31.600	31.850	32.040	32.100					30.800	30.980	31.250	30.900
57.0	31.600	31.900	32.040	32.110					30.790	30.989	31.250	30.930
Therm.	82°1	83°2	84°0	85°3	86°0	87°0	87°4	87°0	86°1	85°8	84°0	83°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3.0	2°18'79	2°18'52	2°19'58	2°19'49	1°47'50	1°46'95	1°47'17	1°47'35	1°47'31	1°47'55	1°47'72	1°47'76
8.0	2·18·79	2·18·59	2·19·41	2·19·39					1·47·38	1·47·51	1·47·72	1·47·65
13.0	2·18·79	2·18·81	2·19·70	2·19·22					1·47·31	1·47·58	1·47·44	1·47·72
18.0	2·18·72	2·18·95	2·19·60	2·18·88					1·47·31	1·47·58	1·47·51	1·47·65
23.0	2·18·86	2·19·31	2·19·74	2·19·02					1·47·41	1·47·58	1·47·51	1·47·79
28.0	2·18·79	2·19·45	2·19·69	2·18·78					1·47·38	1·47·58	1·47·51	1·47·82
33.0	2·18·72	2·19·60	2·19·59	*	1·47·20	1·46·93	1·47·24	1·47·40	1·47·51	1·47·65	1·47·65	1·47·93
38.0	2·18·72	2·19·64	2·19·74	1·47·07					1·47·72	1·47·51	1·47·72	1·47·89
43.0	2·18·65	2·19·53	2·19·39	1·47·50					1·47·72	1·47·44	1·47·68	1·47·72
48.0	2·18·65	2·19·53	2·19·29	1·47·40					1·47·58	1·47·44	1·47·72	1·47·52
53.0	2·18·45	2·19·62	2·19·19	1·47·35					1·47·65	1·47·58	1·47·65	1·47·65
58.0	2·18·59	2·19·69	2·19·41	1·47·50					1·47·55	1·47·72	1·47·58	1·47·55

* The magnet was disturbed by a cobweb, but after being freed from it the readings did not return.

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'519	16'343	15'897	13'906	13'219	12'533	12'256	12'876	13'562	14'249	14'867	14'111	13'493
5·0	15·587	16·102	15·897	13·734	13·219					14·351	14·798	14·111	13·425
10·0	15·691	16·30)	15·485	18·630	13·219					14·317	14·762	14·042	13·356
15·0	15·691	16·309	15·382	13·389	13·219					14·386	14·762	13·906	13·287
20·0	15·966	16·136	15·211	13·219	13·219					14·523	14·702	13·906	13·287
25·0	15·966	16·274	14·798	13·219	13·219					14·592	14·728	13·837	13·219
30·0	15 983	16·172	14·557	13·219	12·944	12·188	12·703	12·944	13·906	14·660	14·660	13·768	13·219
35·0	15·966	16·206	14·592	13·219	12·876					14·694	14·660	13·680	13·219
40·0	15·379	16·172	14·249	13·219	12·876					14·726	14·592	13·562	13·150
45·0	16·309	16·240	14·249	13·219	12·601					14·762	14·523	13·493	13·081
50·0	16·515	16·309	14·249	13·219	12·635					14·798	14·454	13·562	13·081
55·0	16·378	16·172	13·940	13·219	12·533					14·815	14·386	13·493	13·013

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·610	18·770	19·070	19·495	19·650	19·500	19·300	18·875	18·745	18·555	18·300	18·210	18·230
7·0	18·530	18·845	19·175	19·475	19·700					18·550	18·300	18·200	18·260
12·0	18·670	18·835	19·130	19·450	19·657					18·540	18·300	18·210	18·250
17·0	18·665	18·815	19·155	19·500	19·650					18·500	18·300	18·210	18·280
22·0	18·665	18·940	19·190	19·500	19·650					18·475	18·290	18·250	18·250
27·0	18·650	18·920	19·230	19·540	19·650					18·450	18·300	18·210	18·240
32·0	18·650	18·945	19·300	19·550	19·650	19·300	19·100	18·850	18·640	18·425	18·300	18·250	18·240
37·0	18·650	18·930	19·400	19·550	19·600					18·410	18·290	18·220	18·210
42·0	18·700	19·000	19·375	19·550	19·600					18·377	18·280	18·220	18·200
47·0	18·765	18·965	19·425	19·600	19·600					18·370	18·280	18·210	18·160
52·0	18·770	19·025	19·425	19·650	19·550					18·340	18·220	18·220	18·180
57·0	18·770	19·010	19·450	19·650	19·550					18·320	18·200	18·245	18·160
Therm.	81°6	81°0	81°2	82°2	83°0	84°0	83°0	83°5	82°8	82°0	82°9	82°4	82°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·09·90	0·44·80	-0·07·90	-1·04·75	-1·11·75					-0·30·35	-1·02·00	-1·19·70	-1·29·20
8·0	0·15·80	0·44·80	-0·24·00	-1·04·75	-1·18·30					-0·22·55	-1·00·10	-1·19·70	-1·36·20
13·0	0·15·80	0·44·80	-0·33·60	-1·04·75	-1·18·30					-0·23·50	-1·04·10	-1·19·70	-1·36·20
18·0	0·22·50	0·27·00	-0·33·60	-1·04·75	-1·19·30					-0·23·50	-1·04·10	-1·28·10	-1·36·20
23·0	0·22·50	0·27·00	-0·41·10	-1·04·75	-1·18·30					-0·23·50	-1·06·25	-1·28·10	-1·36·20
28·0	0·29·30	0·27·00	-0·41·10	-1·04·75	-1·18·30	-1·29·80		-0·25·00	-0·09·55	-0·23·50	-1·07·15	-1·28·10	-1·36·20
33·0	0·29·30	0·29·00	-0·47·40	-1·04·75	-1·18·30					-0·29·00	-1·08·70	-1·28·10	-1·36·20
38·0	0·29·30	0·29·00	-0·47·40	-1·04·75	-1·29·80					-0·29·00	-1·14·10	-1·28·10	-1·36·20
43·0	0·29·30	0·15·70	-0·47·40	-1·04·75	-1·29·80					-0·31·75	-1·14·10	-1·28·10	-1·36·20
48·0	0·35·00	0·08·60	-1·04·75	-1·04·75	-1·29·80					-0·37·50	-1·14·10	-1·28·10	-1·36·20
53·0	0·35·00	0·00·80	-1·04·75	-1·11·75	-1·29·80					-0·43·30	-1·17·80	-1·28·10	-1·36·20
58·0	0·44·80	-0·07·90	-1·04·75	-1·11·75	-1·29·80	-1·11·20	-0·37·00	-0·00·95	-0·30·35	-0·46·50	-1·19·70	-1·28·10	-1·36·20
Therm.	83°0	81°5	81°8	82°0	82°0	82°6	82°6	83°0	83°7	82°6	82°6	82°5	83°0

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′34	17′18	14′99	14′40	13′68	13′42	13′94	14′73	15′97	16′04	15′51	14′67
5·0	17·34	17·08	14·98	13·88					15·51	16·04	15·51	14·52
10·0	17·34	16·76	14·83	13·88					15·51	16·04	15·45	14·47
15·0	17·34	16·56	14·62	14·35					15·45	16·04	15·25	14·47
20·0	17·34	16·30	14·62	14·35					15·61	15·92	15·04	14·47
25·0	17·39	16·04	14·52	14·25					15·71	15·82	14·99	14·47
30·0	17·43	15·87	14·47	14·14	13·42	13·68	13·94	15·54	15·82	15·77	14·99	14·47
35·0	17·48	15·56	14·47	13·99					15·92	15·71	14·99	14·47
40·0	17·48	15·51	14·47	13·94					15·92	15·56	14·99	14·47
45·0	17·48	15·40	14·47	13·94					16·04	15·51	14·93	14·47
50·0	17·39	15·25	14·47	13·83					16·04	15·51	14·88	14·47
55·0	17·34	15·04	14·47	13·83					16·04	15·51	14·78	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	32·250	32·450	32·610	32·800	32·710	32·800	32·300	32·040	31·700	31·420	31·200	31·180
7·0	32·280	32·450	32·610	32·860					31·690	31·400	31·195	31·195
12·0	32·300	32·485	32·620	32·800					31·630	31·400	31·180	31·190
17·0	32·300	32·500	32·620	32·800					31·600	31·390	31·160	31·200
22·0	32·330	32·505	33·670	32·750					31·610	31·395	31·170	31·200
27·0	32·350	32·500	32·680	32·740					31·600	31·395	31·170	31·200
32·0	32·370	32·510	32·700	32·700	32·850	32·450	32·300	31·900	31·600	31·390	31·130	31·200
37·0	32·400	32·570	32·700	32·770					31·560	31·320	31·120	31·180
42·0	32·400	32·590	32·700	32·790					31·510	31·305	31·120	31·180
47·0	32·400	32·600	32·740	32·800					31·500	31·300	31·110	31·130
52·0	32·400	32·610	32·790	32·800					31·500	31·270	31·000	31·110
57·0	32·420	32·610	32·790	32·770					31·450	31·230	31·160	31·120
Therm.	77°6	77°6	78°5	79°7	80°2	79°2	80°0	79°3	79°7	79°9	80°0	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′82	1°47′67	1°48′23	1°47′72	1°48′32	1°48′05	1°48′09	1°48′06	1°48′32	1°47′84	1°48′18	1°47′99
8·0	1·47·68	1·48·10	1·48·04	1·48·00					1·48·42	1·47·87	1·48·33	1·48·21
13·0	1·47·94	1·47·98	1·47·94	1·48·17					1·48·25	1·47·84	1·48·26	1·48·00
18·0	1·47·94	1·48·16	1·47·89	1·48·17					1·48·08	1·47·97	1·48·13	1·48·07
23·0	1·47·77	1·48·12	1·47·72	1·48·29					1·48·16	1·47·97	1·48·27	1·48·22
28·0	1·47·90	1·48·01	1·47·72	1·48·43					1·48·09	1·48·23	1·48·20	1·48·15
33·0	1·47·80	1·47·91	1·47·72	1·48·15	1·47·98	1·48·49	1·47·87	1·47·98	1·48·16	1·48·16	1·48·13	1·48·00
38·0	1·47·84	1·48·09	1·47·72	1·48·24					1·48·04	1·48·30	1·47·99	1·48·15
43·0	1·47·65	1·48·18	1·47·72	1·48·24					1·47·94	1·48·37	1·47·92	1·48·22
48·0	1·47·72	1·48·32	1·47·72	1·48·10					1·47·83	1·48·30	1·47·85	1·47·86
53·0	1·48·08	1·48·32	1·47·72	1·48·29					1·47·87	1·48·23	1·48·06	1·48·01
58·0	1·47·94	1·48·26	1·47·72	1·48·18					1·47·89	1·48·32	1·47·99	1·47·94

TERM HOUR OBSERVATIONS ON THE 24TH AND 25TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′960	16′615	15′966	15′280	14′317	13′562	12′876	13′236	13′906	14′249	14′454	14′249	13′768
5·0	15·966	16·615	15·966	15·280	14·249					14·249	14·454	14·249	13·700
10·0	16·084	16·447	15·966	15·280	14·420					14·249	14·386	14·111	13·527
15·0	16·172	16·309	15·897	15·280	14·249					14·317	14·386	14·111	13·562
20·0	16·309	16·309	15·760	15·211	14·179					14·317	14·386	14·111	13·425
25·0	16·309	16·240	15·691	15·176	13·837					14·351	14·317	14·042	13·287
30·0	16·378	16·102	15·623	14·762	13·871	13·219	12·876	13·562	14·042	14·386	14·317	14·042	13·219
35·0	16·447	16·102	15·553	14·762	13·940					14·454	14·386	14·042	13·219
40·0	16·584	16·034	15·460	14·592	13·906					14·454	14·386	14·042	13·081
45·0	16·584	16·034	15·348	14·592	13·871					14·454	14·386	13·974	13·013
50·0	16·515	15·966	15·280	14·592	13·871					14·454	14·368	13·974	13·013
55·0	16·515	15·966	15·314	14·592	13·321					14·454	14·249	13·837	12·944

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·760	18·940	19·280	19·650	20·050	19·950	19·750	19·540	19·030	18·700	18·435	18·200	18·150
7·0	18·790	18·960	19·300	19·750	20·000					18·655	18·410	18·200	18·150
12·0	18·790	19·000	19·280	19·760	20·010					18·640	18·400	18·180	18·160
17·0	18·805	19·050	19·280	19·750	20·050					18·615	18·400	18·160	18·160
22·0	18·820	19·100	19·290	19·790	20·050					18·600	18·380	18·160	18·170
27·0	18·835	19·140	19·320	19·850	20·050					18·590	18·330	18·150	18·170
32·0	18·870	19·190	19·360	19·950	20·000	19·850	19·700	19·320	18·820	18·550	18·300	18·150	18·160
37·0	18·890	19·220	19·390	19·950	19·960					18·530	18·290	18·150	18·160
42·0	18·890	19·250	19·450	19·950	20·000					18·500	18·290	18·150	18·160
47·0	18·870	19·250	19·550	19·950	19·975					18·500	18·250	18·150	18·170
52·0	18·850	19·270	19·600	19·975	19·960					18·480	18·210	18·150	18·170
57·0	18·900	19·280	19·650	20·050	19·960					18·450	18·210	18·150	18·160
Therm.	81°0	81°0	81°7	81°2	81°5	82°7	83°0	83°3	84°3	84°6	84°6	84°0	83°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0.38·20	0.07·50	−0.26·70	−0.34·00	−0.36·50					−0.08·45	−0.12·10	−0.15·90	−0.38·50
8·0	0.32·40	0.00·10	−0.26·70	−0.34·00	−0.36·50					−0.08·45	−0.12·10	−0.15·90	−0.38·50
13·0	0.32·40	0.00·10	−0.26·70	−0.34·00	−0.36·50					−0.12·10	−0.12·10	−0.15·90	−0.38·50
18·0	0.32·40	−0.08·40	−0.30·10	−0.34·00	−0.36·50					−0.12·10	−0.12·10	−0.15·90	−0.38·50
23·0	0.24·90	−0.08·40	−0.30·10	−0.31·80	−0.36·50					−0.12·10	−0.12·10	−0.15·90	−0.38·50
28·0	0.24·90	−0.08·40	−0.30·10	−0.31·80	−1·01.15	−1·28·40		−0.25·70	−0.08·45	−0.12·10	−0.12·10	−0.25·40	−0.44·70
33·0	0.24·90	−0.08·40	−0.30·10	−0.31·80	−1·01.15					−0.12·10	−0.12·10	−0.30·80	−0.44·70
38·0	0.16·80	−0.16·60	−0.30·10	−0.31·80	−1·10·90					−0.12·10	−0.12·10	−0.30·80	−0.44·70
43·0	0.16·80	−0.16·60	−0.30·10	−0.31·80	−1·10·90					−0.12·10	−0.12·10	−0.33·50	−0.44·70
48·0	0.16·80	−0.26·70	−0.30·10	−0.31·80	−1·18·60					−0.12·10	0.12·10	−0.33·50	−0.44·70
53·0	0.16·80	−0.26·70	−0.30·10	−0.36·50	−1·18·60					−0.12·10	−0.12·10	−0.33·50	−0.44·70
58·0	0.07·50	−0.26·70	−0.34·00	−0.36·50	−1·28·40	−1·31·40	−0.25·70	−0.20·75	−0.08·45	−0.12·10	−0.15·90	−0.38·50	−1·04·00
Therm.	82°0	81°3	81°8	81°5	81°5	82°5	82°5	83°3	84°1	84°4	84°7	84°7	84°2

TERM HOUR OBSERVATIONS ON THE 24TH AND 25TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′39	17′02	16′40	15′56	14′57	13′94	14′47	15′04	15′51	15′61	15′45	14′99
5·0	17·39	16·92	16·35	15·51					15·51	15·56	15·45	14·99
10·0	17·39	16·76	16·24	15·45					15·51	15·56	15·45	14·93
15·0	17·23	16·66	16·04	15·40					15·56	15·51	15·40	14·78
20·0	17·23	16·56	16·04	15·25					15·56	15·51	15·35	14·57
25·0	17·18	16·50	16·04	15·14					15·51	15·51	15·30	14·47
30·0	17·13	16·50	15·97	15·04	14·47	13·94	14·99	15·40	15·56	15·56	15·25	14·47
35·0	17·13	16·50	15·92	15·04					15·56	15·56	15·25	14·47
40·0	17·13	16·50	15·71	14·99					15·61	15·51	15·14	14·47
45·0	17·08	16·66	15·61	14·99					15·61	15·51	15·09	14·47
50·0	17·08	16·50	15·56	14·88					15·61	15·45	15·04	14·47
55·0	17·02	16·50	15·56	14·73					15·61	15·45	14·99	14·40

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	31·900	32·210	32·700	33·010	32·870	32·450	32·180	31·520	31·280	30·960	30·800	30·700
7·0	31·900	32·300	32·740	33·000					31·200	30·950	30·780	30·700
12·0	31·900	32·370	32·800	32·970					31·180	30·920	30·780	30·700
17·0	31·960	32·400	32·890	32·930					31·100	30·900	30·770	30·700
22·0	32·000	32·440	32·950	32·910					31·100	30·900	30·720	30·700
27·0	32·020	32·480	33·000	32·910					31·100	30·880	30·720	30·700
32·0	32·090	32·560	33·030	32·880	32·700	32 400	31·890	31·400	31·040	30·810	30·700	30·700
37·0	32·100	32·600	33·010	32·800					31·040	30·810	30·700	30·700
42·0	32·100	32·620	33·030	32·800					31·020	30·810	30·700	30·700
47·0	32·130	32·650	33·020	32·790					31·000	30·800	30·700	30·700
52·0	32·180	32·680	33·030	32·750					31·000	30·800	30·700	30·700
57·0	32·190	32·700	33·030	32·800					30·930	30·800	30·700	30·700
Therm.	79°2	79°5	79°1	79°5	80°3	80°3	81°2	81°5	82°7	83°0	83°0	82°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′88	*1°45′73	1°46′62	1°46′81	1°46′48	1°46′81	1°46′45	1°46′83	1°46′88	1°46′79	1°46′88	1°46′69
8·0	1·47·85	*1·45·73	1·46·62	1·46·88					1·46·88	1·46·79	1·46·88	1·46·77
13·0	1·48·06	*1·45·73	1·46·76	1·46·91					1·46·88	1·46·78	1·46·74	1·46·60
18·0	1·47·92	*1·45·81	1·46·76	1·47·03					1·46·95	1·46·73	1·46·74	1·46·63
23·0	1·47·92	*1·45·67	1·46·69	1·46·96					1·46·95	1·46·73	1·46·89	1·46·50
28·0	1·47·92	*1·45·60	1·46·66	1·46·62					1·46·98	1·46·66	1·46·82	1·46·36
33·0	1·47·78	*1·45·53	1·46·39	1·46·65	1·46·14	1·46·73	1·46·84	1·46·67	1·46·88	1·46·95	1·46·82	1·46·80
38·0	1·47·78	1·46·4	1·46·39	1·46·86					1·46·94	1·47·92	1·46·82	1·46·86
43·0	1·47·81	1·46·53	1·46·37	1·46·83					1·46·94	1·47·02	1·46·82	1·46·72
48·0	1·47·81	1·46·69	1·46·37	1·46·79					1·46·79	1·47·02	1·46·89	1·46·65
53·0	1·47·75	1·46·62	1·46·37	1·46·79					1·46·79	1·47·02	1·46·89	1·46·79
58·0	1·47·75	1·46·65	1·46·79	1·46·24					1·46·79	1·46·88	1·46·76	1·46·87

* These observations are incorrect, the instrument having been accidentally disturbed.

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	15′691	14′936	13′493	11′845	11′501	11′431	11′534	11′293	12′256	13′219	13′219	13′287
5·0	15·280	15·623	14·901	13·219	11·671					12·601	13·219	13·219	13·150
10·0	15·280	15·623	14·867	13·219	11·671					12·601	13·219	13·219	13·150
15·0	15·297	15·623	14·728	13·047	11·501					12·703	13·219	13·150	13·150
20·0	15·348	15·623	14·592	12·703	11·501					12·669	13·304	13·150	13·150
25·0	15·348	15·553	14·454	12·533	11·501					12·772	13·287	13·150	13·150
30·0	15·485	15·553	14·386	12·533	11·501	11·225	11·501	11·518	11·569	13·013	13·219	13·150	13·150
35·0	15·623	15·416	14·317	12·533	11·327					13·150	13·219	13·150	13·150
40·0	15·691	15·280	14·179	12·188	11·157					12·944	13·219	13·150	13·219
45·0	15·691	15·211	14·042	11·845	11·157					12·906	13·219	13·150	13·150
50·0	15·691	15·074	13·837	11·845	11·157					13·081	13·355	13·355	13·081
55·0	15·691	15·074	13·734	11·845	11·157					13·219	13·219	13·355	12·944

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·960	19·160	19·400	19·650	19·600	19·800	19·895	19·875	19·670	19·605	19·140	19·010	18·710
7·0	18·925	19·190	19·400	19·650	19·625					19·510	19·115	19·000	18·620
12·0	18·980	19·200	19·400	19·650	19·650					19·520	19·100	19·000	18·610
17·0	19·030	19·200	19·400	19·650	19·650					19·480	19·100	19·000	18·600
22·0	19·050	19·200	19·440	19·650	19·700					19·450	19·070	18·930	18·590
27·0	19·050	19·230	19·510	19·675	19·650					19·445	19·050	18·880	18·590
32·0	19·045	19·270	19·550	19·700	19·700	19·900	19·650	19·795	19·660	19·325	19·020	18·340	18·590
37·0	19·085	19·320	19·570	19·750	19·750					19·320	19·050	18·880	18·620
42·0	19·120	19·350	19·550	19·750	19·715					19·360	19·010	18·840	18·670
47·0	19·140	19·350	19·560	19·745	19·700					19·360	19·000	18·790	18·670
52·0	19·150	19·380	19·650	19·710	19·750					19·230	19·010	18·700	18·700
57·0	19·160	19·390	19·650	19·650	19·800					19·160	19·030	18·700	18·700
Therm.	81°0	81°5	82°0	83°1	82°2	81°7	81°0	80°8	80°9	80°9	81°0	81°0	81°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·21·10	-0·08·90	-1·08·20	-2·09·00	-2·01·25					-0·19·00	-0·06·00	-0·37·70	-0·43·50
8·0	0·21·10	-0·16·90	-1·19·30	-2·09·00	-2·01·25					-0·12·20	-0·06·00	-0·37·70	-0·43·50
13·0	0·21·10	-0·16·90	-1·25·00	-2·20·90	-2·01·25					-0·12·20	-0·06·00	-0·37·70	-0·43·50
18·0	0·14·70	-0·22·20	-1·25·00	-2·20·90	-2·01·25					-0·12·20	-0·01·95	-0·43·50	-0·43·50
23·0	0·14·70	-0·22·20	-1·34·30	-2·20·90	-1·45·35					-0·05·95	-0·01·95	-0·43·50	-0·43·50
28·0	0·14·70	-0·33·70	-1·34·30	-2·20·90	-1·45·55	-2·90·65	-1·42·45	-1·23·40	-0·47·00	-0·05·95	-0·01·95	-0·43·50	-0·43·50
33·0	0·08·10	-0·33·70	-1·44·20	-2·20·90	-1·45·55					-0·05·95	-0·07·60	-0·43·50	-0·43·50
38·0	0·08·10	-0·41·40	-1·44·20	-2·20·90	-1·45·55					-0·10·45	-0·07·60	-0·43·50	-1·02·10
43·0	0·08·10	-0·41·40	-2·02·60	-2·20·90	-1·45·55					-0·16·45	-0·07·60	-0·43·50	-1·02·10
48·0	0·00·80	-1·01·00	-2·02·60	-2·20·90	-1·45·55					-0·16·45	-0·07·60	-0·43·50	-1·02·10
53·0	0·00·80	-1·01·00	-2·09·00	-2·20·90	-2·00·65					-0·09·60	-0·37·70	-0·43·50	-1·02·10
58·0	-0·08·90	-1·08·70	-2·09·00	-2·13·70	-2·00·65	-1·43·75	-1·31·20	-1·16·95	-0·28·35	-0·09·45	-0·37·70	-0·43·50	-1·01·50
Therm.	82°9	82°5	82°5	83°0	82°6	82°0	81°5	81°6	81°3	81°2	81°2	81°5	81°5

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0					12·37	12·37	12·73	12·37				
5·0												
10·0												
15·0												
20·0												
25·0												
30·0					12·11	12·37	12·47	12·83				
35·0												
40·0												
45·0												
50·0												
55·0												

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0					33·500	33·200	33·000	32·700				
7·0												
12·0												
17·0												
22·0												
27·0												
32·0					33·250	33·125	32·890	32·700				
37·0												
42·0												
47·0												
52·0												
57·0												
Therm.					78°6	78°0	78°0					

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0					-1°46'28	-1°46'50	-1°46'31	-1°46'50				
8·0												
13·0												
18·0												
23·0												
28·0												
33·0					-1·46·43	-1·46·43	-1·46·59	-1·46·35				
38·0												
43·0												
48·0												
53·0												
58·0												

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH JUNE 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·862	16·309	16·068	14·592	11·845	11·157	10·814	11·501	12·256	12·927	13·906	14·042	13·498
5·0	15·862	16·309	15·966	14·249	11·845					13·013	13·906	14·042	13·219
10·0	15·828	16·102	15·897	14·249	11·845					13·219	13·974	14·042	13·219
15·0	15·862	16·378	16·102	13·906	11·265					13·287	13·974	14·042	13·184
20·0	16·034	16·447	15·760	13·906	11·501					13·389	14·111	13·974	13·150
25·0	16·068	16·481	15·623	13·734	11·501					13·425	14·111	13·906	13·081
30·0	16·274	16·240	15·553	13·562	11·501	10·641	10·882	11·845	12·533	13·562	14·042	13·906	13·081
35·0	16·309	16·309	15·416	13·359	11·501					13·630	14·111	13·837	13·013
40·0	16·309	16·309	15·280	12·876	11·501					13·768	14·111	13·837	12·944
45·0	16·309	16·309	15·108	12·840	11·501					13·837	14·111	13·700	12·738
50·0	16·309	16·172	14·762	12·533	11·157					13·837	14·111	13·700	12·669
55·0	16·309	16·102	14·592	12·256	11·157					13·906	14·111	13·630	12·601

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·150	19·350	19·550	19·875	19·850	19·850	19·825	19·132	19·000	18·810	18·530	18·530	18·600
7·0	19·220	19·350	19·555	19·875	19·900					18·790	18·510	18·560	18·620
12·0	19·250	19·395	19·610	19·851	19·950					18·790	18·500	18·590	18·620
17·0	19·250	19·450	19·635	19·900	19·950					18·740	18·500	18·590	18·620
22·0	19·260	19·480	19·620	19·850	19·950					18·720	18·510	18·570	18·620
27·0	19·250	19·525	19·685	19·850	19·950					18·710	18·515	18·580	18·610
32·0	19·300	19·520	19·720	19·750	19·950	19·800	19·600	18·940	18·665	18·700	18·540	18·590	18·600
37·0	19·315	19·500	19·800	19·750	19·950					18·660	18·540	18·580	18·610
42·0	19·280	19·460	19·900	19·800	19·950					18·640	18·670	18·580	18·600
47·0	19·300	19·470	19·900	19 800	19·950					18·600	18·670	18·590	18·600
52·0	19·320	19·490	19·925	19·800	19·900					18·570	18·670	18·590	18·610
57·0	19·350	19·500	19·955	19·800	19·925					18·550	18·670	18·600	18·600
Therm.	79°8	79°5	79°0	79°5	80°0	80°0	80°5	80°8	80°9	80°8	81°0	80°9	80°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·08·00	2·08·00	1·35·50	0·27·40	0·06·50					1·31·15	1·43·95	1·09·80	0·38·30
8·0	2·08·00	1·49·90	1·26·30	0·27·40	0·06·50					1·35·65	1·43·95	1·09·80	0·38·30
13·0	2·08·00	1·46·40	1·26·30	0·27·40	0·04·00					1·35·65	1·40·40	1·09·80	0·38·30
18·0	2·08·00	1·46·40	1·26·30	0·14·80	0·04·00					1·35·65	1·36·50	1·03·60	0·36·30
23·0	3·08·00	1·46·40	1·16·50	0·14·80	0·04·00					1·39·70	1·29·00	1·03·60	0·38·30
28·0	2·08·00	1·41·60	1·16·50	0·14·80	0·04·00					1·39·70	1·27·40	0·46·50	0·38·30
33·0	2·08·00	1·41·60	1·07·90	0·14·80	0·04·60	0·19·80	0·48·25	1·03·55	1·19·60	1·39·70	1·22·20	0·46·50	0·38·30
38·0	2·08·00	1·41·60	0·47·45	0·14·80	0·04·60					1·43·95	1·22·20	0·46·50	0·38·30
43·0	2·08·00	1·41·60	0·47·45	0·06·50	0·04·60					1·43·95	1·22·20	0·46·50	0·38·30
48·0	2·08·00	1·41·60	0·44·70	0·06·50	0·04·60					1·43·95	1·22·20	0·38·30	0·38·30
53·0	2·08·00	1·35·50	0·44·70	0·06·50	0·04·60					1·43·95	1·22·20	0·38·30	0·38·30
58·0	2·08·00	1·35·50	0·27·40	0·06·50	0·12·60	0·31·90	0·48·20	1·11·20	1·31·15	1·43·95	1·09·80	0·38·30	0·38·30
Therm.	81°3	80°7	80°2	79°8	80°2	79°5	79°7	80°0	80°0	80°3	80°1	80°4	80°4

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH JUNE 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′28	17′34	15′66	13′16	12′37	11′85	12′78	13′42	14′20	14′99	15′25	14′52
5·0	17·28	17·18	15·56	12·95					14·25	15·04	15·19	14·47
10·0	17·28	17·13	15·51	12·90					14·40	15·14	15·19	14·47
15·0	17·39	17·08	15·35	12·90					14·47	15·14	15·14	14·47
20·0	17·43	17·02	15·19	12·90					14·62	15·19	15·04	14·40
25·0	17·48	16·82	14·99	12·90					14·73	15·25	14·99	14·30
30·0	17·53	16·71	14·78	12·78	11·85	12·37	12·90	13·26	14·78	15·25	14·99	14·20
35·0	17·60	16·56	14·47	12·63					14·83	15·25	14·99	14·20
40·0	17·60	16·50	14·25	12·52					14·88	15·25	14·99	14·14
45·0	17·53	16·30	13·94	12·47					14·99	15·25	14·99	14·09
50·0	17·53	16·04	13·73	12·42					14·99	15·30	14·78	13·99
55·0	17·39	15·92	13·42	12·37					14·99	15·30	14·67	13·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	32·100	32·280	32·600	32·500	32·580	32·500	31·700	31·580	31·200	30·900	31·000	30·990
7·0	32·100	32·320	32·600	32·550					31·180	30·880	31·000	30·980
12·0	32·160	32·340	32·540	32·600					31·150	30·900	31·000	30·990
17·0	32·200	32·350	32·470	32·670					31·130	30·900	31·000	30·980
22·0	32·200	32·370	32·430	32·700					31·100	30·900	31·000	30·960
27·8	32·230	32·390	32·390	32·700					31·080	30·900	31·000	30·950
32·0	32·250	32·440	32·350	32·700	32·550	32·200	31·500	31·400	31·050	30·930	30·990	30·930
37·0	32·290	32·500	32·400	32·700					31·020	30·970	30·970	30·900
42·0	32·270	32·530	32·430	32·690					31·000	31·000	30·970	30·900
47·0	32·250	32·590	32·450	32·680					31·000	31·000	30·960	30·900
52·0	32·200	32·600	32·500	32·650					30·920	31·000	30·980	30·900
57·0	32·250	32·600	32·480	32·600					30·910	31·000	30·980	30·900
Therm.	76°0	75°8	75°7	75°8	75°8	76°4	77°0	77°6	77°0	77°6	78°0	78°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′64	1°46′40	1°46′36	1°46′21	1°46′52	1°46′60	1°46′48	1°46′62	1°46′43	1°46′83	1°46′67	1°46′56
8·0	1·46·64	1·46·30	1·46·02	1·46·35					1·46·36	1·46·83	1·46·67	1·46·43
13·0	1·46·43	1·46·23	1·46·02	1·46·35					1·46·43	1·46·90	1·46·67	1·46·43
18·0	1·46·57	1·46·43	1·45·97	1·46·00					1·46·50	1·46·75	1·46·67	1·46·39
23·0	1·46·64	1·46·23	1·46·11	1·46·14					1·46·46	1·46·89	1·46·75	1·46·50
28·0	1·46·67	1·46·24	1·46·22	1·46·14					1·46·64	1·46·89	1·46·69	1·46·43
33·0	1·46·29	1·46·45	1·46·34	1·46·14	1·46·43	1·46·60	1.46·49	1·46·60	1·46·63	1·46·82	1·46·69	1·46·43
38·0	1·46·36	1·46·47	1·46·31	1·46·14					1·46·55	1·46·74	1·46·76	1·46·51
43·0	1·46·36	1·46·47	1·46·23	1·46·28					1·46·69	1·46·74	1·46·76	1·46·58
48·0	1·46·50	1·46·45	1·46·62	1·46·23					1·46·76	1·46·74	1·46·62	1·46·38
53·0	1·45·36	1·46·24	1·46·46	1·45·94					1·46 76	1·46·74	1·46·62	1·46·45
58·0	1·46·29	1·46·22	1·46·48	1·46·37					1·46·83	1·46·74	1·46·70	1·46·53

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'828	16'996	15'966	13'957	12'101	10'882	10'128	10'744	11'107	11'501	12'256	13'150	13'047
5·0	15·828	16·755	15·897	13·974	12·188					11·535	12·394	13·287	13·047
10·0	15·897	16·447	15·485	13·734	11·845					11·569	12·533	13·355	12·876
15·0	15·828	16·653	15·382	13·562	11·845					11·569	12·533	13·287	12·738
20·0	16·000	16·653	15·280	13·389	11·845					11·707	12·533	13·287	12·806
25·0	15·966	16·653	15·108	12·304	11·501					11·776	12·533	13·287	12·876
30·0	16·274	16·653	14·970	12·944	11·276	10·299	10·128	10·744	11·293	11·776	12·533	13·287	12·876
35·0	16·378	16·481	14·936	12·876	11·157					11·845	12·703	13·150	12·876
40·0	16·309	16·481	14·798	12·944	11·157					11·845	12·876	13·150	12·806
45·0	16·447	16·447	14·523	12·533	11·157					11·981	12·876	13·150	12·806
50·0	16·653	16·240	14·336	12·463	11·157					12·119	13·013	13·081	12·738
55·0	16·858	16·172	14·249	12·188	11·157					12·188	13·081	13·081	12·669

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·500	18·730	19·195	19·800	19·875	19·900	19·700	19·570	19·195	18·940	18·800	18·590	18·590
7·0	18·500	18·750	19·250	19·800	19·900					18·910	18·790	18·560	18·600
12·0	18·570	18·740	19·810	19·750	19·900					18·930	18·790	18·590	18·600
17·0	18·630	18·795	19·330	19·800	19·900					18·910	18 800	18·590	18·610
22·0	18·620	18·860	19·390	19·850	19·900					18·870	18·800	18·590	18·570
27·0	18·600	18·910	19·440	19·850	19·900					18·900	18·800	18·600	18·550
32·0	18·600	18·970	19·395	19·850	19·900	19·850	19·700	19·380	19·045	18·900	18·790	18·610	18·600
37·0	18·610	18·965	19·350	19·875	19·850					18·900	18·710	18·600	18·620
42·0	18·670	19·040	19·600	19·850	19·850					18·870	18·710	18·600	18·630
47·0	18·690	19·080	19·600	19·800	19·850					18·900	18·700	18·600	18·600
52·0	18·670	19·090	19·650	19·850	19·850					18·810	18·610	18·600	18·635
57·0	18·715	19·155	19·725	19·850	19·850					18·800	18·600	18·590	18·580
Therm.	80°5	80°0	80°0	79°8	80°5	81°0	80°2	81°0	81°1	80°5	80°4	80°8	80°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·37·80	2·37·80	1·07·20	0·16·15	−0·15·70					1·21·50	1·43·25	1·33·40	1·00·20
8·0	2·37·80	2·19·10	0·49·40	0·16·15	−0·26·65					1·21·50	1·43·25	1·34·40	2·02·20
13·0	2·37·80	2·19·10	0·49·40	0·04·10	−0·26·65					1·26·10	1·43·25	1·24·70	2·02·20
18·0	2·37·80	2·12·80	0·42·40	0·03·40	−0·26·65					1·29·05	1·43·25	1·24·70	2·02·20
23·0	2·37·80	2·02·70	0·42·40	0·03·40	−0·32·05					1·28·60	1·43·25	1·24·70	2·02·20
28·0	2·37·80	1·46·20	0·35·50	0·03·40	−0·32·05	−0·37·90	0·09·90	0·25·75	1·00·85	1·28·60	1·39·80	1·13·60	2·02·20
33·0	2·37·80	1·39·80	0·35·50	−0·08·40	−0·32·05					1·35·90	1·39·80	1·08·40	2·02·20
38·0	2·37·80	1·35·50	0·27·10	−0·08·40	−0·35·00					1·35·90	1·41·30	1·08·40	1·45·20
43·0	2·37·80	1·35·50	0·27·10	−0·08·40	−0·35·00					1·42·15	1·41·30	1·08·40	1·45·20
48·0	2·37·80	1·23·00	0·16·15	−0·15·70	−0·35·00					1·46·70	1·41·30	1·08·40	1·40·90
53·0	2·37·80	1·17·10	0·16·15	−0·15·70	−0·35·00					1·41·30	1·41·30	1·00·20	1·40·90
58·0	2·37·80	1·07·20	0·16·15	−0·15·70	−0·38·80	−0·04·30	0·19·40	0·42·50	1·17·00	1·41·30	1·34·40	1·00·20	1·40·90
Therm.	81°8	80°6	80°5	79°0	80°3	80°6	80°5	80°6	80°8	80°6	80°7	80°9	81·0

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17′65	16′76	14′99	13′21	11′85	10′81	11′33	11′85	11′95	12′90	13′78	13′47
5·0	17·60	16·61	14·93	13·05					12·00	12·95	13·88	13·42
10·0	17·60	16·50	14·78	12·90					12·05	13·00	13·88	13·42
15·0	17·60	16·35	14·62	12·83					12·11	13·05	13·88	13·42
20·0	17·60	16·24	14·47	12·63					12·16	13·10	13·88	13·42
25·0	17·48	16·04	14·30	12·47					12·16	13·16	13·88	13·42
30·0	17·43	15·87	14·14	12·37	11·07	11·33	11·43	11·85	12·31	13·16	13·88	13·42
35·0	17·39	15·71	13·94	12·37					12·37	13·36	13·88	13·42
40·0	17·34	15·51	13·53	12·26					12·37	13·42	13·83	13·42
45·0	17·18	15·40	13·62	12·05					12·52	13·47	13·78	13·42
50·0	17·08	15·25	13·47	11·85					12·68	13·52	13·73	13·36
55·0	16·97	15·19	13·42	11·85					12·83	13·62	13·62	13·16

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	31·070	31·600	32·250	32·170	32·300	32·400	31·980	31·480	31·400	31·200	30·800	30·850
7·0	31·100	31·600	32·290	32·200					31·400	31·180	30·800	30·850
12·0	31·130	31·670	32·300	32·200					31·400	31·150	30·800	30·850
17·0	31·150	31·740	32·300	32·200					31·390	31·130	30·800	30·840
22·0	31·280	31·820	32·300	32·200					31·340	31·110	30·800	30·820
27·0	31·280	31·890	32·300	32·230					31·360	31·100	30·800	30·790
32·0	31·300	31·940	32·300	32·200	32·395	32·200	31·770	31·500	31·350	31·080	30·800	30·770
37·0	31·350	32·000	32·300	32·200					31·340	31·020	30·790	30·760
42·0	31·400	32·090	32·300	32·230					31·300	30·950	30·800	30·750
47·0	31·460	32·170	32·280	32·270					31·360	30·900	30·820	30·720
52·0	31·500	32·200	32·250	32·300					31·280	30·870	30·830	30·780
57·0	31·580	32·230	32·200	32·300					31·230	30·840	30·840	30·820
Therm.	78°0	77°7	77°0	78°0	78°2	78°0	79°0	79°2	78°0	78°0	78°2	78°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46′91	1°46′33	1°46′15	1°46′46	1°46′38	1°46′07	1°46′53	1°46′61	1°46′71	1°46′62	1°46′50	1°46′40
8·0	1·46·80	1·46·37	1·46·60	1·46·69					1·46·61	1·46·75	1·46·64	1·46·40
13·0	1·46·36	1·46·25	1·46·36	1·46·35					1·46·64	1·46·76	1·46·71	1·46·23
18·0	1·46·56	1·46·43	1·46·34	1·46·35					1·46·50	1·46·75	1·46·64	1·46·24
23·0	1·46·56	1·46·47	1·46·17	1·46·49					1·46·49	1·46·75	1·46·64	1·46·45
28·0	1·46·56	1·46·45	1·46·22	1·46·14					1·46·56	1·46·75	1·46·64	1·46·56
33·0	1·46·70	1·46·45	1·46·01	1·45·92	1·46·09	1·46·07	1·46·53	1·46·36	1·46·42	1·46·75	1·46·64	1·46·81
38·0	1·46·53	1·46·42	1·46·09	1·45·94					1·46·49	1·46·77	1·46·50	1·46·96
43·0	1·46·53	1·46·43	1·46·29	1·45·94					1·46·35	1·46·95	1·46·50	1·46·87
48·0	1·46·50	1·46·15	1·46·57	1·46·09					1·46·48	1·46·81	1·46·50	1·46·57
53·0	1·46·43	1·46·46	1·46·39	1·46·37					1·46·62	1·46·79	1·46·43	1·46·81
58·0	1·46·50	1·46·02	1·46·41	1·46·52					1·46·55	1·46·58	1·46·43	1·46·74

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	15′553	14′936	13′476	12′533	11′845	10′436	9′853	10′744	11′501	12′533	13′219	13′287
5·0	15·211	15·691	14·867	13·219	12·533					11·707	12·533	13·219	13·219
10·0	15·280	15·623	14·660	13·219	12·533					11·776	12·669	13·219	13·184
15·0	15·348	15·623	14·660	12·876	12·533					11·845	12·669	13·287	13·150
20·0	15·416	15·485	14·592	12·703	12·290					11·913	12·806	13·287	13·081
25·0	15·416	15·416	14·592	12·567	12·533					12·015	12·876	13·287	12·978
30·0	15·416	15·348	14·523	12·533	12·533	10·985	10·471	10·058	11·053	12·256	12·910	13·287	12·876
35·0	15·553	15·280	14·179	12·533	12·533					12·222	13·047	13·287	12·806
40·0	15·553	15·211	14·076	12·533	12·188					12·326	13·081	13·287	12·738
45·0	15·623	15·211	13·906	12·533	12·188					12·394	13·081	13·355	12·738
50·0	15·623	15·142	13·871	12·533	12·015					12·533	13·081	13·287	12·669
55·0	15·623	15·074	13·734	12·533	11·880					12·533	13·219	13·287	12·601

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·700	18·910	19·140	19·400	19·400	19·400	19·280	19·000	18·690	18·490	18·250	18·110	18·130
7·0	18·720	18·980	19·140	19·400	19·400					18·480	18·240	18·100	18·120
12·0	18·755	18·930	19·200	19·435	19·450					18·400	18·175	18·100	18·130
17·0	18·800	18·990	19·220	19·450	19·415					18·400	18·175	18·100	18·110
22·0	18·840	19·000	19·210	19·450	19·400					18·390	18·170	18·110	18·120
27·0	18·840	19·040	19·250	19·455	19·400					18·375	18·150	18·110	18·140
32·0	18·850	19·080	19·250	19·450	19·400	19·350	19·200	18·805	18·620	18·330	18·100	18·110	18·130
37·0	18·870	19·120	19·250	19·450	19·400					18·330	18·100	18·110	18·120
42·0	18·885	19·120	19·250	19·450	19·400					18·275	18·100	18·130	18·110
47·0	18·890	19·150	19·350	19·435	19·400					18·270	18·120	18·110	18·120
52·0	18·890	19·150	19·350	19·425	19·450					18·250	18·125	18·130	18·090
57·0	18·900	19·150	19·350	19·450	19·440					18·240	18·125	18·130	18·090
Therm.	81°4	81°7	81°3	83°0	84°0	84°0	84°7	85°3	85°3	85°2	84°8	84°4	83°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·24·20	1·05·70	0·03·70	-0·46·30	-1·16·75					0·02·60	0·17·75	0·18·20	0·09·50
8·0	1·24·20	0·45·80	-0·02·30	-0·46·30	-1·16·75					0·02·60	0·17·75	0·18·20	0·09·50
13·0	1·24·20	0·45·80	-0·02·30	-1·05·80	-1·16·75					0·02·60	0·17·75	0·18·20	0·00·00
18·0	1·16·90	0·36·30	-0·02·30	-1·05·80	-1·29·25					0·04·95	0·21·80	0·18·20	0·00·00
23·0	1·16·90	0·36·30	-0·13·80	-1·05·80	-1·29·25					0·04·95	0·21·80	0·18·20	0·00·00
28·0	1·16·90	0·27·16	-0·13·80	-1·05·80	-1·29·25	-2·03·25	-1·45·50	-1·11·50	-0·14·50	0·09·10	0·21·80	0·18·20	0·00·00
33·0	1·16·90	0·27·10	-0·21·50	-1·05·30	-1·34·45					0·09·40	0·21·80	0·18·20	0·00·00
38·0	1·12·40	0·18·20	-0·21·50	-1·05·80	-1·34·45					0·13·70	0·20·10	0·18·20	0·00·00
43·0	1·12·40	0·18·20	-0·21·50	-1·05·80	-1·34·45					0·13·70	0·20·10	0·18·20	0·00·00
48·0	1·12·40	0·10·10	-0·31·80	-1·05·80	-1·48·00					0·13·70	0·18·20	0·18·20	0·00·00
53·0	1·05·70	0·10·10	-0·31·80	-1·05·80	-1·48·00					0·17·75	0·18·20	0·09·50	0·00·00
58·0	1·05·70	0·03·70	-0·46·30	-1·16·75	-1·48·00	-2·10·85	-1·36·00	-0·34·75	0·02·60	0·17·75	0·18·20	0·09·50	0·00·00
Therm.	82°9	82°5	82°2	83°5	83°1	83°8	84°0	84°6	85°2	85°2	85°2	84°7	84°4

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′56	16′04	14′47	13′73	12′83	11′85	10′86	11′85	12′78	13′68	14′20	14′20
5·0	16·56	15·97	14·40	13·73					12·90	13·68	14·20	14·20
10·0	16·56	15·87	14·26	13·68					12·90	13·73	14·25	14·14
15·0	16·56	15·82	14·09	13·52					12·90	13·88	14·25	14·14
20·0	16·56	15·61	13·99	13·47					13·00	13·88	14·25	14·09
25·0	16·50	15·45	13·88	13·47					13·10	13·94	14·25	14·09
30·0	16·40	15·40	13·62	13·42	12·11	11·33	11·33	12·31	13·16	13·94	14·25	14·04
35·0	16·35	15·25	13·47	13·42					13·26	13·99	14·20	14·04
40·0	16·30	15·19	13·62	13·36					13·42	14·04	14·20	14·04
45·0	16·24	14·99	13·73	13·05					13·42	14·04	14·20	13·99
50·0	16·09	14·78	13·78	12·90					13·57	14·09	14·25	13·88
55·0	16·04	14·57	13·73	12·90					13·62	14·14	14·25	13·68

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	30·900	30·940	31·260	31·350	31·470	31·300	30·920	30·620	30·400	30·200	30·190	30·200
7·0	30·960	30·940	31·270	31·340					30·410	30·200	30·200	30·200
12·0	30·990	30·970	31·280	31·350					30·400	30·180	30·170	30·200
17·0	31·020	31·000	31·300	31·350					30·400	30·170	30·160	30·200
22·0	31·020	31·050	31·350	31·360					30·390	30·160	30·160	30·200
27·0	31·030	31·050	31·400	31·350					30·390	30·150	30·170	30·200
32·0	31·000	31·060	31·450	31·400	31·300	31·200	30·700	30·580	30·360	30·130	30·190	30·200
37·0	31·000	31·090	31·500	31·450					30·350	30·100	30·190	30·200
42·0	30·960	31·100	31·440	31·450					30·320	30·120	30·190	30·200
47·0	30·980	31·150	31·400	31·450					30·300	30·150	30·190	30·200
52·0	30·970	31·180	31·380	31·480					30·270	30·160	30·190	30·200
57·0	30·950	31·220	31·360	31·490					30·250	30·170	30·190	30·200
Therm.	80°0	79°7	80°2	81°2	81°5	82°2	83°2	83°6	83°0	82°2	82°0	82°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′45	1°46′42	1°46′55	1°46′31	1°46′21	1°46′23	1°46′36	1°46′39	1°46′28	1°46′75	1°46′29	1°46′50
8·0	1·46·31	1·46·37	1·46·29	1·46·17					1·46·35	1·46·75	1·46·29	1·46·43
13·0	1·46·09	1·46·14	1·46·43	1·46·17					1·46·42	1·46·74	1·46·29	1·46·39
18·0	1·46·09	1·46·14	1·46·09	1·46·31					1·46·49	1·46·74	1·46·36	1·46·36
23·0	1·45·96	1·46·22	1·46·05	1·46·07					1·46·41	1·46·74	1·46·50	1·46·43
28·0	1·45·89	1·46·30	1·46·07	1·46·46					1·46·51	1·46·66	1·46·50	1·46·33
33·0	1·46·25	1·46·58	1·46·17	1·46·60	1·46·60	1·46·26	1·46·28	1·46·58	1·46·62	1·46·55	1·46·50	1·46·68
38·0	1·46·33	1·46·52	1·46·31	1·46·60					1·46·58	1·46·55	1·46·50	1·46·45
43·0	1·46·55	1·46·71	1·46·31	1·46·26					1·46·55	1·46·58	1·46·50	1·46·52
48·0	1·46·55	1·46·09	1·46·46	1·46·41					1·46·61	1·46·43	1·46·57	1·46·52
53·0	1·46·48	1·46·79	1·46·46	1·46·24					1·46·75	1·46·43	1·46·50	1·46·55
58·0	1·46·55	1·46·65	1·46·46	1·46·24					1·46·75	1·46·43	1·46·50	1·46·53

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	16′102	15′142	12′978	11′088	10′402	10′196	10′128	9′853	11′845	12′806	13′493	13′297
5·0	15·280	16·102	14·936	12·533	10·882					11·845	12·944	13·493	13·297
10·0	15·348	16·034	14·798	12·428	10·814					12·256	12·876	13·630	13·287
15·0	15·485	16·034	14·798	12·273	10·539					12·326	12·944	13·700	13·150
20·0	15·623	16·102	14·523	12·188	10·471					12·290	12·944	13·768	13·150
25·0	15·897	16·034	14·317	12·136	10·641					12·533	13·150	13·837	13·013
30·0	15 931	16·034	14·179	12·015	10·505	10·196	10·128	9·716	11·088	12·533	13·184	13·837	12·944
35·0	15·897	15·931	14·008	11·913	10·471					12·533	13·219	13·871	12·876
40·0	15·897	15·897	13·734	11·845	10.471					12·601	13·287	13·871	12·876
45·0	15·966	15·691	13·562	11·673	10·297					12·772	13·389	13·768	12·876
50·0	15·966	15·485	13·219	11·501	10·333					12·806	13·425	13·562	12·738
55·0	16·034	15·280	13·047	11·225	10·230					12·806	13·493	13·287	12·669

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·875	19·050	19·440	19·750	20·200	20·250	20·055	19·920	19·135	18·250	18·360	18·340	18·040
7·0	18·900	19·065	19·450	19·840	20·250					18·300	18·400	18·300	18·080
12·0	18·840	19·150	19·450	19·850	20·260					18·150	18·475	18·250	18·090
17·0	18·850	19·190	19·450	20·000	20·300					18·150	18·510	18·250	18·100
22·0	18·900	19·250	19·460	20·050	20·300					18·150	18·510	18·210	18·090
27·0	18·900	19·300	19·520	20·050	20·300					18·160	18·490	18·190	18·030
32·0	18·930	19·340	19·550	20·050	20·300	20·250	19·950	19·500	18·550	18·200	18·415	18·150	18·000
37·0	18·900	19·355	19·550	20·070	20·300					18·200	18·400	18·150	18·005
42·0	18·940	19·370	19·625	20·070	20·250					18·175	18·350	18·120	18·015
47·0	18·940	19·420	19·650	20·095	20·250					18·175	18·300	18·110	18·050
52·0	18·960	19·430	19·650	20·090	20·250					18·250	18·340	18·050	18·040
57·0	18·960	19·450	19·650	20·150	20.250					18·350	18·340	18·050	18·050
Therm.	81°9	82°0	82°8	83°0	82°7	83°0	83°3	83°8	83°2	83°4	83°9	83°8	83°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·49·70	0·23·30	−1·05·90	−2·02·65	−1·44·50					0·14·35	−0·04·75	−0·11·00	−0·34·00
8·0	0·49·70	0·17·70	−1·15·90	−2·02·65	−1·44·50					0·25·10	−0·04·75	−0·11·00	−0·40·10
13·0	0·49·70	0·09·10	−1·21·60	−2·02·65	−1·44·50					0·25·85	−0·10·80	−0·11·00	−0·40·10
18·0	0·42·20	0·09·10	−1·28·50	−2·02·65	−1·44·50					0·20·35	−0·10·80	−0·11·00	−0·40·10
23·0	0·42·20	0·09·10	−1·28·50	−2·02·65	−1·44·50					0·20·35	−0·10·80	−0·11·00	−0·40·10
28·0	0·42·20	0·00·70	−1·36·50	−1·44·50	−1·44·50	−1·20·10	−0·12·40	−0·28·40	−0·14·10	0·20·35	−0·05·55	−0·11·00	−0·40·10
33·0	0·42·20	−0·07·40	−1·36·50	−1·44·50	−1·44·50					0·13·25	−0·05·55	−0·11·00	−0·34·00
38·0	0·32·50	−0·14·60	−1·45·00	−1·44·50	−1·44·50					0·13·25	−0·05·55	−0·17·50	−0·34·00
43·0	0·32·50	−0·21·40	−2·02·65	−1·44·50	−1·44·50					0·13·25	−0·05·55	−0·17·50	−0·34·00
48·0	0·32·50	−0·36·50	−2·02·65	−1·44·50	−1·44·50					0·13·25	−0·05·55	−0·25·30	−0·34·00
53·0	0·32·50	−0·42·20	−2·02·65	−1·44·50	−1·39·10					0·06·60	−0·05·55	−0·25·30	−0·34·00
58·0	0·23·30	−1·05·90	−2·02·65	−1·44·50	−1·34·75	−0·31·40	−0·28·40	−0·00·00	0·20·80	−0·04·75	−0·05·55	−0·34·00	−0·43·50
Therm.	82°9	82°5	82°7	82°7	82°5	82°7	82°5	83°0	82°3	82°5	83°2	83°6	83°3

TERM HOUR OBSERVATIONS ON THE 6TH AND 7TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17'34	16'40	13'99	12'21	11'59	11'33	11'33	11'79	12'90	14'09	14'73	14'47
5·0	17·39	16·04	13·88	12·05					12·90	14·20	14·73	14·47
10·0	17·18	15·97	13·52	11·90					13·10	14·20	14·88	14·35
15·0	17·23	15·82	13·42	11·85					13·36	14·20	14·99	14·20
20·0	17·18	15·66	13·42	11·85					13·42	14·20	14·99	13·94
25·0	17·18	15·51	13·42	11·74					13·73	14·25	14·99	13·94
30·0	17·13	15·30	13·21	11·59	11·38	11·33	10·81	12·37	13·73	14·35	14·99	13·94
35·0	17·08	15·09	12·95	11·59					13·88	14.47	14·99	13·94
40·0	17·02	14·99	12·90	11·59					13·94	14·52	14·99	13·94
45·0	16·97	14·73	12·78	11·53					13·99	14·67	14·93	13·94
50·0	16·66	14·40	12·63	11·59					14·09	14·73	14·88	13·83
55·0	16·56	14·20	12·37	11·59					14·14	14·73	14·73	13·68

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	30·920	31·250	31·840	32·380	32·300	32·450	31·880	31·340	30·300	30·270	30·300	29·940
7·0	30·980	31·310	31·900	32·400					30·360	30·320	30·290	29·950
12·0	31·100	31·350	32·020	32·400					30·230	30·390	30·240	29·950
17·0	31·190	31·390	32·100	32·430					30·160	30·460	30·200	29·960
22·0	31·280	31·400	32·150	32·400					30·120	30·500	30·170	29·970
27·0	31·280	31·430	32·230	32·400					30·100	30·460	30·150	29·970
32·0	31·280	31·450	32·280	32·420	32·350	32·000	31·700	30·800	30·170	30·400	30·120	29·910
37·0	31·290	31·470	32·340	32·420					30·150	30·340	30·090	29·930
42·0	31·300	31·560	32·300	32·400					30·130	30·300	30·080	29·950
47·0	31·300	31·630	32·300	32·370					30·160	30·290	30·020	29·970
52·0	31·300	31·700	32·300	32·350					30·160	30·280	29·970	29·980
57·0	31·270	31·780	32·320	32·330					30·200	30·280	29·930	29·990
Therm	80°0	·80°1	80°0	79°8	80°0	80°0	80°7	80°5	80°2	81°0	81°4	81°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46'57	1°46'62	1°46'62	1°46'74	1°46'62	1°46'35	1°46'93	1°45'93	1°47'35	1°47'08	1°46'70	1°46'64
8·0	1·46·43	1·46·57	1·46·46	1·46·53					1·47·35	1·47·16	1·46·86	1·46·64
13·0	1·46·36	1·46·57	1·46·65	1·46·60					1·47·47	1·47·10	1·46·70	1·46·93
18·0	1·46·36	1·46·57	1·46·49	1·46·38					1·47·26	1·47·01	1·46·77	1·46·93
23·0	1·46·43	1·46·58	1·46·55	1·46·26					1·46·93	1·47·01	1·46·84	1·47·08
28·0	1·46·50	1·46·66	1·46·50	1·46·58					1·47·08	1·47·08	1·46·76	1·47·08
33·0	1·46·40	1·46·67	1·46·51	1·46·45	1·46·71	1·47·22	1·46·66	1·46·88	1·47·08	1·46·96	1·46·76	1·47·16
38·0	1·46·52	1·46·79	1·46·41	1·46·55					1·46·89	1·46·86	1·46·79	1·47·10
43·0	1·46·59	1·46·65	1·46·59	1·46·55					1·46·95	1·46·64	1·46·79	1·47·09
48·0	1·46·68	1·46·63	1·46·31	1·46·38					1·47·12	1·46·60	1·46·84	1·47·09
53·0	1·46·33	1·46·43	1·46·43	1·46·41					1·47·03	1·46·64	1·46·68	1·46·96
58·0	1·46·62	1·46·40	1·46·44	1·46·31					1·47·03	1·46·70	1·46·50	1·46·89

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	15′485	14′660	13′734	13′940	13′562	12′876	12′394	12′428	12′394	13′184	13′630	13′425
5·0	15·245	15·485	14·660	13·837	13·974					12·394	13·184	13·700	13·425
10·0	15·280	15·348	14·454	13·837	14·145					12·394	13·355	13·700	13·321
15·0	15·314	15·348	14·249	13·871	14·179					12·394	13·493	13·700	13·287
20·0	15·348	15·348	14·042	13·906	14·249					12·394	13·493	13·630	13·219
25·0	15·416	15·314	13·974	13·906	14·420					12·533	13·547	13·562	13·184
30·0	15·416	15·280	13·871	13·906	14·249	13·493	12·533	12·533	12·463	12·669	13·562	13·562	13·081
35·0	15·485	15·245	13·837	13·906	14·249					12·738	13·562	13·562	12·910
40·0	15·485	15·211	13·734	13·906	14·249					12·772	13·630	13·562	12·944
45·0	15·485	15·074	13·562	13·906	14·111					12·876	13·562	13·493	12·806
50·0	15·416	15·038	13·562	13·928	13·940					12·978	13·562	13·425	12·669
55·0	15·485	14·967	13·630	13·923	13·906					13·081	13·837	13·321	12·635

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·470	18·650	18·920	19·200	19·350	19·400	19·250	18·880	18·600	18·500	18·600	18·400	18·240
7·0	18·470	18·680	18·920	19·250	19·360					18·520	18·600	18·350	18·250
12·0	18·490	18·740	18·920	19·285	19·360					18·520	18·550	18·320	18·260
17·0	18·520	18·750	18·950	19·300	19·350					18·520	18·550	18·310	18·250
22·0	18·500	18·760	18·960	19·300	19·350					18·520	18·550	18·310	18·250
27·0	18·505	18·760	18·980	19·305	19·400					18·520	18·510	18·310	18·250
32·0	18·520	18·770	19·010	19·310	19·360	19·250	19·100	18·710	18·470	18·525	18·490	18·350	18·250
37·0	18·520	18·790	19·050	19·350	19·350					18·560	18·450	18·380	18·250
42·0	18·550	18·800	19·100	19·350	19·400					18·600	18·440	18·330	18·250
47·0	18·600	18·820	19·125	19·350	19·400					18·600	18·420	18·320	18·220
52·0	18·600	18·880	19·150	19·350	19·400					18·620	18·410	18·310	18·250
57·0	18·630	18·860	19·200	19·350	19·390					18·610	18·400	18·290	18·250
Therm.	81°8	81°9	82°4	83°0	83°9	83°5	84°0	84°7	85°2	83°0	83°0	83°0	82°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·31·70	0·05·80	-1·08·50	-1·08·50	-0·32·25					-0·44·90	-0·02·30	-0·05·40	-0·16·10
8·0	0·24·10	-0·05·40	-1·20·40	-1·08·50	-0·32·25					-0·38·25	-0·02·30	-0·05·40	-0·16·10
13·0	0·24·10	-0·05·40	-1·20·40	-1·08·50	-0·32·25					-0·30·45	0·02·60	-0·05·40	-0·16·10
18·0	0·24·10	-0·05·40	-1·24·60	-1·08·50	-0·26·20					-0·22·85	0·02·60	-0·09·60	-0·16·10
23·0	0·24·10	-0·16·70	-1·24·60	-1·00·10	-0·26·20					-0·22·85	0·02·60	-0·09·60	-0·16·10
28·0	0·24·10	-0·16·70	-1·24·60	-1·00·10	-0·26·20	-0·32·10	-1·29·60	-1·31·10	-1·07·20	-0·15·90	0·02·60	-0·09·60	-0·16·10
33·0	0·24·10	-0·26·00	-1·24·60	-1·00·10	-0·26·20					-0·11·50	0·02·60	-0·09·60	-0·16·10
38·0	0·16·20	-0·33·00	-1·24·60	-1·00·10	-0·26·20					-0·11·50	0·02·60	-0·09·60	-0·16·10
43·0	0·16·20	-0·33·00	-1·17·50	-0·44·45	-0·26·20					-0·11·50	0·02·60	-0·09·60	-0·16·10
48·0	0·16·20	-0·46·50	-1·17·50	-0·44·45	-0·26·20					-0·06·50	0·02·60	-0·16·10	-0·16·10
53·0	0·05·80	-0·46·50	-1·17·50	-0·44·55	-0·26·20					-0·02·30	0·02·60	-0·16·10	-0·16·10
58·0	0·05·80	-1·08·50	-1·08·50	-0·44·55	-0·26·20	-1·06·15	-1·45·60	-1·13·15	-0·49·00	-0·02·30	-0·05·40	-0·16·10	-0·21·80
Therm.	82°3	82°5	82°5	82°6	83°0	83°0	83°5	84°2	84°6	83°7	82°9	83°0	83°3

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16′56	15′71	14′73	15′09	14′73	14′47	13′94	13′88	13′05	14′40	14′78	14′47
5·0	16·56	15·66	14·83	15·19					13·00	14·47	14·78	14·47
10·0	16·56	15·35	14·83	15·25					13·16	14·47	14·88	14·40
15·0	16·50	15·25	14·99	15·25					13·21	14·47	14·78	14·40
20·0	16·50	15·04	14·99	15·19					13·42	14·62	14·78	14 25
25·0	16·45	14·99	14·99	15·04					13·67	14·73	14·73	14·20
30·0	16·35	14·88	15 14	14·99	14·20	14·20	13·94	13·68	13·73	14·73	14·67	14·09
35·0	16·39	14·78	15·19	14·99					13·88	14·78	14·67	13·94
40·0	16·24	14·73	15·19	14·99					13·94	14·78	14·52	13·94
45·0	16·04	14·67	15·25	14·99					13·99	14·83	14·47	13·83
50·0	16·04	14·73	15·14	14·78					14·20	14·99	14·47	13·78
55·0	15·97	14·73	15·14	14·73					14·25	14·93	14·47	13·62

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	30·280	30·530	30·900	31·120	31·300	31·000	30·500	30·300	30·700	30·340	30·120	30·080
7·0	30·300	30·570	30·930	31·150					30·700	30·300	30·100	30·060
12·0	30·320	30·580	30·940	31·170					30·680	30·300	30·100	30·120
17·0	30·350	30·600	30·950	31·200					30·630	30·320	30·100	30·100
22·0	30·360	30·620	30·960	31·200					30·580	30·360	30·100	30·100
27·0	30·390	30·650	31·000	31·240					30·530	30·300	30·100	30·100
32·0	30·400	30·690	31·020	31·290	31·050	30·715	30·310	30·300	30·500	30·300	30·100	30·100
37·0	30·400	30·700	31·000	31·320					30·480	30·280	30·100	30·100
42·0	30·400	30·740	31·040	31·360					30·450	30·250	30·100	30·120
47·0	30·400	30·800	31·070	31·300					30·430	30·200	30·100	30·150
52·0	30·430	30·820	31·100	31·300					30·400	30·180	30·100	30·170
57·0	30·490	30·850	31·100	31·290					30·380	30·140	30·090	30·200
Therm.	80°0	80°1	80°2	81°4	81°0	82°0	82°8	83°2	80°4	80°2	80°2	80°1

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°46′83	1°46′57	1°46′94	1°46′72	1°46′63	1°47′10	1°46′75	1°46′79	1°46′75	1°46′96	1°46′70	1°46′78
8·0	1·46·83	1·46·72	1·46·91	1·46·75					1·46·75	1·46·68	1·46·91	1·46·78
13·0	1·46·69	1·46·79	1·46·91	1·46·93					1·46·75	1·46·86	1·46·91	1·46·67
18·0	1·46·83	1·47·03	1·46·94	1·46·96					1·46·75	1·46·84	1·46·91	1·46·79
23·0	1·46·83	1·40·82	1·46·88	1·47·03					1·46·61	1·46·70	1·46·85	1·46·86
28·0	1·46·79	1·46·75	1·46·83	1·47·20					1·46·75	1·46·76	1·46·91	1·46·96
33·0	1·46·91	1·46·79	1·46·83	1·47·03	1·47·13	1·46·89	1·46·89	1·46·82	1·46·89	1·46·77	1·46·91	1·46·86
38·0	1·46·88	1·46·76	1·46·83	1·47·03					1·46·96	1·46·77	1·46·91	1·46·84
43·0	1·46·84	1·46·80	1·46·69	1·47·03					1·46·99	1·46·84	1·46·91	1·47·01
48·0	1·46·84	1·46·77	1·46·69	1·47·03					1·47·10	1·46·77	1·46·84	1·47·03
53·0	1·46·81	1·46·77	1·46·70	1·46·86					1·47·05	1·46·77	1·46·78	1·46·89
58·0	1·46·78	1·46·84	1·46·70	1·46·83					1·47·15	1·47·05	1,46·67	1·47·00

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16·034	15·623	14·454	12·188	10·196	9·441	9·441	10·128	11·225	12·533	13·389	13·562	13·906
5·0	15·897	15·623	14·386	11·845	10·196					12·669	13·493	13·562	13·906
10·0	16·034	15·553	14·249	11·673	10·128					12·876	13·355	13·493	13·837
15·0	16·034	15·416	14·179	11·501	10·128					13·013	13·493	13·493	13·768
20·0	16·102	15·416	14·042	11·501	10·128					13·150	13·562	13·355	13·768
25·0	16·102	15·004	13·562	11·501	10·128					13·219	13·630	13·493	13·768
30·0	15·966	15·142	13·579	11·157	10·128	9·268	10·128	10·676	11·776	13·287	13·700	13·562	13·664
35·0	15·966	15·142	13·527	11·088	10·128					13·287	13·630	13·493	13·700
40·0	15·966	14·936	12·876	10·814	9·785					13·425	13·630	13·627	13·664
45·0	15·966	14·936	12·876	10·814	9·785					13·493	13·562	13·562	13·562
50·0	15·897	14·936	12·876	10·814	9·613					13·493	13·562	13·902	13·562
55·0	15·691	14·592	12·533	10·814	9·441					13·562	13·562	13·837	13·630

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·710	18·240	18·360	18·400	18·650	18·650	18·200	18·270	17·750	17·390	17·320	17·300	17·360
7·0	17·785	18·260	18·390	18·475	18·625					17·320	17·360	17·300	17·290
12·0	17·655	18·260	18·400	18·450	18·650					17·320	17·310	17·320	17·325
17·0	17·835	18·270	18·450	18·375	18·650					17·300	17·340	17·310	17·375
22·0	17·790	18·250	18·450	18·400	18·700					17·270	17·350	17·260	17·350
27·0	17·870	18·220	18·400	18·450	18·700					17·270	17·270	17·210	17·390
32·0	17·850	18·250	18·400	18·400	18·700	18·450	18·300	18·085	17·630	17·270	17·160	17·200	17·330
37·0	17·920	18·250	18·400	18·450	18·725					17·270	17·260	17·220	17·420
42·0	18·020	18·300	18·400	18·500	18·700					17·285	17·290	17·250	17·425
47·0	18·100	18·350	18·300	18·500	18·700					17·300	17·260	17·265	17·380
52·0	18·150	18·350	18·350	18·550	18·665					17·300	17·300	17·275	17·360
57·0	18·210	18·360	18·350	18·550	18·700					17·350	17·380	17·275	17·330
Therm.	82°2	82°8	83°9	84°0	85°0	85°8	86°5	86°8	87°0	86°0	85°0	84°8	83°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·13·80	−0·13·30	−1·08·10	−1·40·60	−1·33·75					−0·39·35	−0·14·55	−0·40·30	−0·26·80
8·0	0·13·80	−0·13·30	−1·13·90	−1·40·60	−1·33·75					−0·35·90	−0·16·00	−0·40·30	−0·21·30
13·0	0·13·80	−0·22·80	−1·13·90	−1·40·60	−1·33·75					−0·30·00	−0·16·00	−0·40·30	−0·21·30
18·0	0·07·20	−0·22·80	−1·21·10	−1·40·60	−1·33·75					−0·25·55	−0·20·10	−0·40·30	−0·21·30
23·0	0·07·20	−0·22·80	−1·27·00	−1·40·60	−1·33·75					−0·25·55	−0·22·95	−0·40·30	−0·21·30
28·0	0·07·20	−0·32·10	−1·27·00	−1·40·60	−1·33·75	−1·49·50	−2·15·50	−2·18·20	−1·32·10	−0·20·55	−0·22·95	−0·40·30	−0·28·30
33·0	−0·01·00	−0·32·10	−1·27·00	−1·33·35	−1·33·75					−0·20·55	−0·27·95	−0·40·30	−0·28·30
38·0	−0·01·00	−0·32·10	−1·36·20	−1·33·35	−1·36·05					−0·20·55	−0·27·95	−0·33·50	−0·28·30
43·0	−0·01·00	−0·43·70	−1·36·20	−1·33·35	−1·36·05					−0·18·10	−0·27·95	−0·33·50	−0·28·30
48·0	−0·01·00	−0·43·70	−1·36·20	−1·33·35	−1·36·05					−0·18·10	0·27·95	−0·26·80	−0·28·30
53·0	−0·13·30	−1·02·20	−1·36·20	−1·33·75	−1·36·05					−0·14·55	−0·40·30	−0·26·80	−0·35·30
58·0	−0·13·30	−1·08·10	−1·36·20	−1·33·75	−1·49·50	−1·41·60	−2·15·50	−1·47·00	−0·44·35	−0·14·55	−0·40·30	−0·26·80	−0·35·30
Therm.	83°4	83°0	83°5	84°2	84°6	85°0	85°5	86°2	86°6	86°2	86°2	85°0	84·0

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′66	15′51	13′42	11′38	10′54	10′81	11′38	12′42	13′57	14′73	14′67	14′99
5·0	16·71	15·51	13·16	11·33					13·83	14·73	14·52	14·99
10·0	16·56	15·45	12·90	11·33					14·94	14·78	14·47	14·93
15·0	16·56	15·19	12·78	11·33					14·14	14·83	14·47	14·88
20·0	16·56	14·99	12·63	11·27					14·20	14·83	14·47	14·83
25·0	16·50	14·67	12·37	11·27					14·25	14·99	14·62	14·83
30·0	16·30	14·47	12·37	11·07	10·54	11·07	11·85	12·90	14·40	14·99	14·78	14·78
35·0	16·24	14·40	12·31	11·01					14·47	14·93	14·73	14·73
40·0	16·09	14·25	12·05	10·96					14·47	14·93	14·78	14·73
45·0	16·04	13·94	11·85	10·81					14·47	14·93	14·83	14·73
50·0	15·92	13·88	11·74	10·74					14·47	14·88	14·93	14·67
55·0	15·71	13·68	11·59	10·54					14·62	14·73	14·99	14·62

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·800	29·790	29·800	30·280	30·170	29·650	29·820	29·300	29·250	29·080	29·090	29·320
7·0	29·800	29·790	29·830	30·350					29·180	29·090	29·130	29·37 0
12·0	29·790	29·830	29·530	30·280					29·190	29·050	29·200	29·430
17·0	29·740	29·870	29·850	30·280					29·160	29·000	29·200	29·450
22·0	29·700	29·850	29·880	30·250					29·110	28·980	29·200	29·430
27·0	29·700	29·800	29·920	30·290					29·100	28·960	29·200	29·380
32·0	29·690	29·800	29·980	30·300	29·900	29·860	29·620	29·250	29·130	28·900	29·230	29·350
37·0	29·680	29·800	30·030	30·300					29·140	28·880	29·250	29·320
42·0	29·730	29·800	30·070	30·280					29·170	28·870	29·240	29·300
47·0	29·780	29·800	30·140	30·250					29·180	28·890	29·250	29·270
52·0	29·780	29·800	30·200	30·270					29·180	28·960	29·260	29·240
57·0	29·780	29·770	30·230	30·250					29·130	29·040	29·300	29·200
Therm.	80°1	81°3	82°0	82°1	82°4	84°0	84°5	84°5	83°4	82°0	*82°0	80°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′10	1°47′23	1°46′97	1°47′14	1°46′96	1°46′67	1°46′78	1°47′88	1°46′89	1°46′89	1°46′77	1°46′98
8·0	1·47·10	1·47·30	1·46·78	1·47·14					1·47·08	1·46·99	1·46·71	1·46·98
13·0	1·47·18	1·47·17	1·46·74	1·47·22					1·47·10	1·46·70	1·46·99	1·46·91
18·0	1·47·15	1·47·10	1·46·71	1·47·22					1·47·23	1·46·84	1·46·99	1·46·98
23·0	1·47·05	1·47·11	1·47·00	1·47·22					1·47·22	1·46·77	1·46·71	1·46·98
28·0	1·46·77	1·46·77	1·47·15	1·47·36					1·47·15	1·46·84	1·46·84	1·46·98
33·0	1·46·91	1·46·93	1·46·95	1·47·36	1·46·50	1·47·36	1·47·76	1·46·99	1·47·07	1·46·91	1·46·77	1·47·01
38·0	1·46·91	1·47·03	1·47·03	1·47·36					1·46·93	1·46·84	1·46·70	1·47·05
43·0	1·47·00	1·46·66	1·46·75	1·47·02					1·46·78	1·46·84	1·46·74	1·47·16
48·0	1·47·16	1·46·81	1·46·89	1·47·17					1·46·84	1·46·77	1·46·77	1·47·06
53·0	1·47·43	1·46·95	1·47·03	1·46·99					1·46·84	1·46·77	1·47·01	1·47·06
58·0	1·47·37	1·47·03	1·47·32	1·46·96					1·46·91	1·46·77	1·46·91	1·47·13

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′623	16′034	15′760	15′004	13′150	12′533	11′67	11′191	11′776	12′463	13′287	13′562	13′906
5·0	15·828	16·034	15·691	14·660	12·876					12·567	13·287	13·562	13·837
10·0	15·897	15·966	15·691	14·592	12·961					12·567	13·389	13·562	13·630
15·0	15·828	15·966	16·623	14·592	12·978					12·567	13·630	13·596	13·493
20·0	15·828	15·966	15·553	14·523	13·115					12·733	13·425	13·734	13·287
25·0	15·897	15·966	15·416	14·249	12·876					12·738	13·493	13·709	13·287
30·0	15·897	15·966	15·348	14·111	12·703	12·015	11·501	11·293	12·050	12·876	13·493	13·700	13·219
35·0	15·931	15·966	15·348	13·906	12·703					13·013	13·498	13·700	13·150
40·0	15·966	15·897	15·348	13·906	12·669					13·081	13·355	13·700	13·081
45·0	16·034	15·897	15·280	13·734	12·567					13·162	13·493	13·837	13·081
50·0	16·034	15·828	15·245	13·493	12·468					13·115	13·493	13·837	13·081
55·0	16·034	15·828	15·004	13·389	12·533					13·219	13·562	13·906	13·013

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·030	18·160	18·320	18·550	18·550	18·360	18·400	18·368	18·075	17·775	17·620	17·690	17·600
7·0	17·995	18·160	18·410	18·550	18·550					17·710	17·650	17·680	17·610
12·0	18·010	18·170	18·410	18·550	18·500					17·700	17·660	17·660	17·600
17·0	18·025	18·200	18·430	18·550	18·500					17·755	17·660	17·650	17·570
22·0	18·050	18·250	18·480	18·460	18·500					17·710	17·690	17·610	17·570
27·0	18·060	18·280	18·450	18·445	18·445					17·670	17·700	17·640	17·550
32·0	18·080	18·300	18·450	18·450	18·450	18·450	18·350	18·250	17·960	17·672	17·710	17·640	17·580
37·0	18·100	18·310	18·460	18·450	18·400					17·660	17·710	17·630	17·570
42·0	18·100	18·310	18·550	18·450	18·400					17·650	17·710	17·610	17·580
47·0	18·105	18·310	18·550	18·550	18·400					17·650	17·710	17·610	17·570
52·0	18·105	18·340	18·550	18·550	18·360					17·650	17·710	17·620	17·550
57·0	18·130	18·350	18·525	18·550	18·350					17·640	17·710	17·635	17·550
Therm.	82°0	82°1	83°0	84°0	85°0	85°8	86°0	86°4	86°0	86°0	85°4	85°0	84°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	1·09·10	0·38·90	0·16·90	−0·20.70	−1·03·45					−1·31·90	−1·20·40	−1·14.10	−1·14.10
8·0	1·03·30	0·38·90	0·16·90	−0·20.70	−1·03·45					−1·31·90	−1·20·40	−1·14.10	−1·14.10
13·0	1·03·30	0·31·00	0·07·00	−0·20·70	−1·10·90					−1·31·90	−1·20·40	−1·14.10	−1·14.10
18·0	1·03·30	0·31·00	0·07·00	−0·32·25	−1·10·90					−1·31·90	−1·20·40	−1·14.10	−1·14.10
23·0	1·03·30	0·31·00	0·07·00	−0·32·25	−1·18·25					−1·31·90	−1·20·40	−1·14.10	−1·14.10
28·0	1·03·30	0·31·00	−0·01·50	−0·32·25	−1·18.25	−1·34·25	−2·25·60	−2·17·70	−1·31·90	−1·27·00	−1·20·40	−0·14.10	−1·14.10
33·0	0·43·70	0·31·00	−0·01·50	−0·44·60	−1·18·25					−1·27·00	−1·20·40	−0·14.10	−1·18·00
38·0	0·43·70	0·31·00	−0·01·50	−0·44·60	−1·28·65					−1·19·35	−1·20·40	−0·14.10	−1·18·00
43·0	0·43·70	0·31·00	−0·10·00	−0·44·60	−1·28·65					−1·26·30	−1·17·70	−0·19.20	−1·18·00
48·0	0·43·70	0·22·50	−0·10·00	−0·48·60	−1·28·65					−1·19·90	−1·13·30	−0·19.20	−1·18·00
53·0	0·43·70	0·22·50	−0·10·00	−0·48·60	−1·28·65					−1·20·40	−1·13·30	−0·19.20	−1·18·00
58·0	0·38·90	0·16·90	−0·20·70	−1·03·45	−1·28·65	−1·31·70	−2·25·90	−2·06·35	−1·31·90	−1·20·40	−1·14·10	−0·14.10	−1·21·70
Therm.	83°7	83°0	83°0	83°5	84°2	84°7	85°0	85°6	85°5	85°4	85°4	85°0	85°0

TERM HOUR OBSERVATIONS ON THE 13TH AND 14TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'08	16'82	16'04	14'47	13'42	12'90	12'37	12'90	13'42	14'25	14'78	14'99
5·0	17·08	16·82	15·92	14·25					13·57	14·30	14·78	14·99
10·0	17·08	16·76	15·71	14·20					13·57	14·35	14·78	14·88
15·0	17·08	16·71	15·56	14·20					13·68	14·47	14·88	14·67
20·0	17·13	16·56	15·51	14·14					13·83	14·47	14·99	14·52
25·0	17·02	16·56	15·30	13·99					13·88	14·52	14·93	14·47
30·0	16·97	16·50	15·25	13·94	13·16	12·90	12·37	13·31	13·94	14·57	14·83	14·35
35·0	16·92	16·50	15·04	13·94					13·99	14·73	14·88	14·20
40·0	16·87	16·45	14·99	13·83					14·20	14·67	14·93	14·20
45·0	16·92	16·30	14·88	13·62					14·25	14·73	13·99	14·14
50·0	16·87	16·19	14·67	13·62					14·30	14·73	14·99	14·09
55·0	16·82	16·09	14·52	13·42					14·30	14·73	14·99	14·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·590	29·600	29·810	29·800	29·680	29·700	29·850	29·500	29·200	29·100	29·100	29·070
7·0	29·600	29·630	29·830	29·830					29·200	29·130	29·090	29·100
12·0	29·620	29·700	29·830	29·790					29·200	29·130	29·090	29·080
17·0	29·630	29·700	29·800	29·750					29·220	29·150	29·040	29·090
22·0	29·630	29·730	29·730	29·710					29·150	29·160	29·010	29·100
27·0	29·600	29·770	29·650	29·700					29·130	29·170	29·020	29·100
32·0	29·600	29·800	29·640	29·700	29·950	29·400	29·790	29·330	29·130	29·180	29·020	29·100
37·0	29·600	29·800	29·700	29·700					29·100	29·180	29·000	29·120
42·0	29·620	29·800	29·700	29·700					29·120	29·160	29·000	29·100
47·0	29·600	29·800	29·700	29·700					29·130	29·120	29·020	29·100
52·0	29·600	29·800	29·730	29·680					29·140	29·130	29·030	29·100
57·0	29·600	29·820	29·750	29·650					29·100	29·100	29·050	29·100
Therm.	79°8	80°1	81°0	82°0	82°3	83°6	84°0	83°2	83°0	83°0	82°3	82°1

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47'51	1°47'24	1°46'91	1°47'08	1°47'08	1°46'74	1°46'84	1°46'98	1°47'10	1°47'50	1°46'91	1°47'11
8·0	1·47·37	1·47·17	1·46·86	1·46·94					1·47·20	1·47·50	1·46·91	1·47·04
13·0	1·47·30	1·47·17	1·47·08	1·47·03					1·47·20	1·47·45	1·46·91	1·46·84
18·0	1·47·30	1·47·10	1·47·37	1·47·19					1·47·20	1·47·70	1·46·94	1·46·56
23·0	1·47·30	1·47·03	1·47·30	1·47·33					1·47·23	1·47·49	1·46·94	1·46·78
28·0	1·47·30	1·47·04	1·47·16	1·47·09					1·47·23	1·47·42	1·46·91	1·47·21
33·0	1·47·44	1·46·97	1·47·03	1·47·06	1·46·37	1·46·86	1·46·79	1·47·12	1·47·23	1·47·13	1·46·91	1·47·28
38·0	1·47·44	1·46·97	1·46·82	1·47·06					1·47·37	1·47·27	1·46·91	1·47·37
43·0	1·47·37	1·47·11	1·46·97	1·47·02					1·47·30	1·46·85	1·46·91	1·47·30
48·0	1·47·37	1·47·05	1·46·94	1·46·92					1·47·38	1·46·99	1·47·04	1·47·30
53·0	1·47·30	1·47·15	1·46·84	1·46·82					1·47·33	1·46·84	1·47·04	1·47·30
58·0	1·47·30	1·46·91	1·47·02	1·46·89					1·47·43	1·46·91	1·47·11	1·47·23

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′728	15′623	15′382	14′249	12′533	11′157	10′573	10′882	11′501	12′738	14′042	14′454	14′249
5·0	14·936	15·583	15·382	13·906	12·360					12·944	13·974	14·592	14·179
10·0	15·108	15·619	15·416	13·337	11·845					13·013	14·042	14·592	14·042
15·0	15·142	15·623	15·382	13·630	11·845					13·081	14·111	14·592	13·974
20·0	15·211	15·623	15·382	13·493	11·845					13·150	14·111	14·592	13·837
25·0	15·348	15·691	15·348	13·389	11·845					13·219	14·249	14·523	13·768
30·0	15·348	15·691	15·280	13·287	11·845	10·333	10·744	10·951	12·256	13·355	14·249	14·592	13·630
35·0	15·348	15·623	15·004	13·321	11·845					13·493	14·317	14·386	13·562
40·0	15·348	15·863	14·936	13·219	11·845					13·768	14·317	14·386	13·389
45·0	15·348	15·485	14·936	13·047	11·569					13·768	14·317	14·454	13·287
50·0	15·348	15·382	14·660	12·978	11·501					13·906	14·454	14·386	13·289
55·0	15·485	15·348	14·420	12·567	11·501					13·974	14·454	14·386	13·484

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·025	18·130	18·460	18·750	19·150	19·410	19·450	19·220	18·990	18·420	18·160	17·920	17·810
7·0	17·890	18·130	18·505	18·750	19·250					18·400	18·130	17·910	17·810
12·0	17·995	18·065	18·505	18·750	19·250					18·370	18·110	17·880	17·810
17·0	17·985	18·200	18·560	18·800	19·250					18·360	18·090	17·880	17·810
22·0	17·990	18·235	18·570	18·800	19·300					18·330	18·050	17·860	17·820
27·0	18·050	18·300	18·550	18·850	19·300					18·300	18·030	17·850	17·840
32·0	18·020	18·330	18·650	18·890	19·350	19·450	19·350	19·160	18·700	18·300	18·000	17·850	17·880
37·0	18·025	18·360	18·650	18·900	19·350					18·270	17·960	17·850	17·880
42·0	18·020	18·370	18·650	19·000	19·350					18·240	17·950	17·810	17·840
47·0	18·040	18·400	18·650	19·050	19·350					18·220	17·920	17·810	17·840
52·0	18·100	18·410	18·700	19·050	19·300					18·220	17·910	17·810	17·860
57·0	18·140	18·450	18·700	19·010	19·365					18·190	17·920	17·810	17·890
Therm.	82°6	82°9	83°3	84°0	83°3	84°0	84°0	84°3	84°5	84°9	85°2	84°8	84°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	-0·03·30	-0·03·30	-0·22·10	-1·05·50	-1·09·70					-1·03·35	-0·19·80	-0·15·20	-0·40·70
8·0	-0·03·30	-0·09·10	-0·22·10	-1·14·10	-1·09·70					-1·03·00	-0·17·05	-0·15·20	-0·47·50
13·0	-0·03·30	-0·09·10	-0·22·10	-1·14·10	-1·09·70					-0·39·60	-0·17·05	-0·20·50	-0·47·50
18·0	-0·03·30	-0·09·10	-0·35·00	-1·14·10	-1·09·70					-0·39·60	-0·17·05	-0·20·50	-0·47·50
23·0	-0·03·30	-0·09·10	-0·35·00	-1·14·10	-1·16·35					-0·39·60	-0·17·05	-0·20·50	-1·05·40
28·0	-0·03·30	-0·09·10	-0·42·70	-1·09·70	-1·16·35	-1·40·80	-2·06·60	-1·39·50	-1·18·10	-0·30·40	-0·05·00	-0·29·20	-1·05·40
33·0	-0·03·30	-0·16·10	-0·42·70	-1·09·70	-1·16·35					-0·30·40	-0·05·00	-0·29·20	-1·05·40
38·0	-0·03·30	-0·16·10	-0·48·50	-1·09·70	-1·24·50					-0·25·60	-0·06·00	-0·34·00	-1·05·40
43·0	-0·03·30	-0·16·10	-0·48·50	-1·09·70	-1·24·50					-0·25·60	-0·06·00	-0·34·00	-1·05·40
48·0	-0·03·30	-0·22·10	-0·48·50	-1·09·70	-1·24·50					-0·25·60	-0·06·00	-0·34·00	-1·05·40
53·0	-0·03·30	-0·22·10	-1·05·50	-1·09·70	-1·24·50					-0·25·60	-0·06·00	-0·40·70	-1·05·40
58·0	-0·03·30	-0·22·10	-1·05·50	-1·09·70	-1·34·10	-1·40·80	-2·00·90	-1·35·10	-1·03·35	-0·19·80	-0·15·20	-0·40·70	-1·05·40
Therm.	83°4	82°9	83°3	83°5	82°7	83°0	83°5	83°6	83°6	84°7	84°7	84°5	84°3

TERM HOUR OBSERVATIONS ON THE 15TH AND 16TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16′82	16′71	15′45	13′62	12′37	11′85	11′85	12′90	13′94	15′25	15′66	15′40
5·0	16·82	16·71	15·30	13·42					14·09	15·25	15·71	15·25
10·0	16·76	16·71	14·99	13·26					14·20	15·25	15·77	15·19
15·0	16·82	16·66	14·78	13·16					14·35	15·30	15·77	15·04
20·0	16·82	16·56	14·62	13·16					14·47	15·35	15·77	14·99
25·0	16·82	16·56	14·47	12·95					14·57	15·45	15·82	14·88
30·0	16·82	16·50	14·47	12·90	11·59	11·85	12·37	13·42	14·73	15·45	15·82	14·78
35·0	16·82	16·35	14·47	12·90					14·88	15·51	15·66	14·73
40·0	16·76	16·19	14·35	12·68					14·99	15·56	15·66	14·57
45·0	16·71	16·04	14·20	12·68					15·09	15·61	15·51	14·47
50·0	16·66	15·82	13·99	12·68					15·19	15·66	15·51	14·47
55·0	16·66	15·56	13·78	12·42					15·25	15·66	15·51	14·40

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	29·330	29·590	29·870	30·590	30·830	30·900	30·850	30·100	29·620	29·340	29·100	29·100
7·0	29·340	29·600	29·880	30·650					29·600	29·320	29·090	29·060
12·0	29·350	29·620	29·940	30·660					29·560	29·300	29·050	29·070
17·0	29·400	29·650	30·080	30·680					29·490	29·300	29·050	29·100
22·0	29·420	29·700	30·200	30·700					29·470	29·280	29·080	29·120
27·0	29·440	29·700	30·250	30·670					29·420	29·250	29·090	29·140
32·0	29·470	29·720	30·290	30·740	31·050	30·750	30·570	29·800	29·400	29·200	29·100	29·140
37·0	29·500	29·780	30·320	30·790					29·400	29·200	29·090	29·150
42·0	29·520	29·800	30·350	30·800					29·400	29·180	29·080	29·160
47·0	29·540	29·810	30·400	30·800					29·400	29·130	29·050	29·180
52·0	29·550	29·830	30·470	30·800					29·360	29·100	29·080	29·190
57·0	29·580	29·850	30·540	30·800					29·320	29·100	29·090	29·200
Therm.	80°0	80°0	81°2	80°2	81°0	82°0	81°6	82°0	82°0	82°1	82°0	82°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°47′39	1°47′15	1°47′31	1°47′03	1°47′09	1°46′36	1°46′67	1°47′00	1°47′09	1°47′11	1°47′28	1°47′16
8·0	1·47·30	1·47·15	1·47·11	1·47·00					1·47·16	1·46·89	1·47·37	1·47·09
13·0	1·47·28	1·47·18	1·47·04	1·46·62					1·47·23	1·46·96	1·47·37	1·47·11
18·0	1·47·25	1·47·15	1·46·84	1·47·05					1·47·30	1·47·03	1·47·37	1·47·04
23·0	1·47·25	1·47·15	1·46·84	1·47·20					1·47·22	1·47·09	1·47·37	1·47·04
28·0	1·47·32	1·47·11	1·46·73	1·47·49					1·47·14	1·47·16	1·47·30	1·46·97
33·0	1·47·32	1·47·29	1·46·92	1·47·49	1·46·12	1·46·58	1·46·74	1·46·89	1·46·99	1·47·16	1·47·37	1·46·98
38·0	1·47·25	1·47·06	1·47·25	1·47·49					1·46·84	1·47·23	1·47·26	1·47·06
43·0	1·47·32	1·47·42	1·47·43	1·47·49					1·47·21	1·47·23	1·47·30	1·47·16
48·0	1·47·25	1·47·71	1·47·26	1·47·35					1·46·97	1·47·09	1·47·37	1·47·21
53·0	1·47·15	1·47·58	1·47·33	1·47·29					1·46·97	1·47·23	1·47·30	1·47·35
58·0	1·47·11	1·47·49	1·46·92	1·47·29					1·47·04	1·47·23	1·47·30	1·47·40

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′004	15′211	14′523	13′734	12′944	12′188	10′916	11′293	11′501	11′981	13′459	13′974	13′837
5·0	15·142	15·211	14·317	13·630	12·876					12·188	13·630	13·940	13·906
10·0	15·142	15·142	14·249	13·596	12·806					12·256	13·630	13·974	13·871
15·0	15·142	15·142	14·249	13·596	12·738					12·468	13·700	13·906	14·111
20·0	15·142	15·142	14·179	13·596	12·876					12·533	13·700	13·837	13·768
25·0	15·485	15·004	14·179	13·596	12·533					12·601	13·700	13·837	13·768
30·0	15·485	15·004	14·111	13·596	12·533	11·501	11·259	11·363	11·569	12·738	13·837	13·802	13·768
35·0	15·280	14·936	14·111	13·389	12·533					12·876	13·837	13·802	13·768
40·0	15·142	14·936	14·076	13·254	12·533					13·013	13·906	13·802	13·768
45·0	15·108	14·867	14·076	13·254	12·428					13·150	13·906	13·802	13·768
50·0	15·142	14·867	13·974	13·219	12·394					13·287	13·837	13·837	13·700
55·0	15·211	14·660	13·871	13·047	12·326					13·425	13·974	13·837	13·630

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·430	18·670	18·705	19·250	19·350	19·320	19·300	18·900	18·820	18·560	18·560	18·370	18·210
7·0	18·405	18·610	18·760	19·250	19·400					18·550	18·520	18·360	18·250
12·0	18·405	18·650	18·850	19·250	19·400					18·550	18·510	18·360	18·240
17·0	18·560	18·700	18·900	19·300	19·400					18·580	18·500	18·350	18·220
22·0	18·480	18·750	18·905	19·300	19·300					18·600	18·500	18·380	18·190
27·0	18·400	18·750	18·960	19·350	19·300					18·610	18·510	18·380	18·160
32·0	18·600	18·750	18·970	19·400	19·400	19·300	19·100	18·890	18·765	18·570	18·470	18·380	18·160
37·0	18·425	18·770	19·020	19·400	19·350					18·550	18·455	18·350	18·130
42·0	18·540	18·805	19·100	19·400	19·335					18·560	18·440	18·340	18·130
47·0	18·570	18·820	19·100	19·400	19·300					18·550	18·440	18·310	18·110
52·0	18·450	18·760	19·125	19·450	19·300					18·545	18·400	18·310	18·060
57·0	18·500	18·720	19·210	19·375	19·300					18·510	18·370	18·280	18·060
Therm.	81°9	81°9	82°8	83°0	83°8	84°5	85°0	84°4	83°6	82°8	82°6	83°0	82°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·09·60	−0·02·90	−0·39·20	−0·48·00	−1·11·65					−0·20·90	−0·19·00	−0·35·90	−0·34·10
8·0	0·09·60	−0·02·90	−0·45·50	−0·48·00	−1·11·65					−0·20·90	−0·19·00	−0·35·90	−0·34·10
13·0	0·09·60	−0·10·40	−0·45·50	−0·48·00	−1·11·65					−0·20·90	−0·19·00	−0·35·90	−0·34·10
18·0	0·09·60	−0·10·40	−0·45·50	−0·48·00	−1·11·65					−0·20·90	−0·19·00	−0·35·90	−0·34·10
23·0	0·09·60	−0·18·40	−0·45·50	−1·05·90	−1·29·95					−0·20·90	−0·19·00	−0·35·90	−0·36·50
28·0	0·09·60	−0·18·46	−0·45·50	−1·05·90	−1·19·95	−1·47·85	−1·15·65	−1·18·10	−0·31·00	−0·20·90	−0·25·15	−0·41·60	−0·36·50
33·0	0·09·60	−0·24·70	−0·45·50	−1·05·90	−1·19·95					−0·20·90	−0·25·15	−0·41·60	−0·36·50
38·0	0·03·30	−0·24·70	−0·45·50	−1·05·90	−1·19·95					−0·20·90	−0·25·15	−0·34·10	−0·36·50
43·0	0·03·30	−0·32·40	−0·45·50	−1·05·90	−1·19·95					−0·20·90	−0·25·15	−0·34·10	−0·36·50
48·0	0·03·30	−0·39·20	−0·48·30	−1·11·65	−1·32·30					−0·20·90	−0·25·15	−0·34·10	−0·36·50
53·0	0·03·30	−0·39·20	−0·48·00	−1·11·65	−1·32·30					−0·20·90	−0·35·90	−0·34·10	−0·36·50
58·0	−0·02·90	−0·39·20	−0·48·00	−1·11·65	−1·41·10	−1·47·85	−1·29·40	−0·48·20	−0·20·90	−0·19·00	−0·35·90	−0·34·10	−0·36·50
Therm.	83°0	82°5	82°9	82°7	83°2	84°0	84°5	84°5	83°7	83°2	82°7	82°9	82°9

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′14	15′51	14′67	13′88	13′21	12′11	12′11	12′37	12′90	14′47	14′99	14′73
5·0	16·14	15·35	14·62	13·78					13·05	14·47	14·99	14·78
10·0	16·09	15·19	14·47	13·73					13·21	14·62	14·99	14·78
15·0	16·09	15·04	14·47	13·52					13·36	14·73	14·88	14·88
20·0	16·04	14·99	14·47	13·57					13·42	14·78		14·88
25·0	16·04	14·99	14·47	13·42					13·68	14·83	14·73	14·83
30·0	16·04	14·93	14·47	13·42	12·63	12·37	12·26	12·47	13·68	14·88	14·67	14·67
35·0	16·04	14·93	14·40	13·62					13·88	14·99	14·67	14·62
40·0	15·97	14·88	14·25	13·47					13·94	14·99	14·62	14·62
45·0	15·92	14·78	14·14	13·42					14·14	14·99	14·62	14·57
50·0	15·77	14·73	13·99	13·42					14·20	14·99	14·73	14·52
55·0	15·61	14·73	13·94	13·42					14·35	14·99	14·73	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·700	29·750	30·500	30·460	30·340	30·300	30·120	30·200	29·920	29·720	29·500	29·300
7·0	29·700	29·870	30·500	30·400					29·900	29·700	29·460	29·280
12·0	29·740	29·940	30·500	30·420					29·900	29·750	29·420	29·270
17·0	29·800	30·080	30·500	30·420					29·900	29·700		29·250
22·0	29·800	30·170	30·520	30·430					29·870	29·650	29·430	29·250
27·0	29·800	30·230	30·500	30·400					29·900	29·600	29·470	29·230
32·0	29·800	30·300	30·530	30·400	30·250	30·200	30·230	30·090	29·900	29·590	29·500	29·190
37·0	29·820	30·300	30·500	30·370					29·890	29·530	29·460	29·150
42·0	29·840	30·330	30·940	30·340					29·850	29·500	29·440	29·120
47·0	29·800	30·400	30·500	30·310					29·820	29·490	29·400	29·100
52·0	29·800	30·440	30·500	30·320					29·800	29·450	29·340	29·080
57·0	29·780	30·500	30·510	30·330					29·740	29·500	29·300	29·030
Therm.	79°3	79°9	79°9	80°2	81°2	82°2	81°6	80°4	80°0	79°1	79°3	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′84	1°47′30	1°46′80	1°47′16	1°46′82	1°46′70	1°46′79	1°46′86	1°46′62	1°46′80	1°46′89	1°47′04
8·0	1·46·84	1·47·09	1·46·84	1·47·09					1·46·68	1·46·84	1·46·86	1·47·11
13·0	1·46·77	1·47·02	1·46·80	1·47·16					1·46·75	1·46·84	1·46·89	1·47·08
18·0	1·46·77	1·47·02	1·46·80	1·47·09					1·46·96	1·46·91		1·47·18
23·0	1·46·91	1·47·09	1·46·80	1·47·23					1·47·03	1·46·91	1·46·90	1·46·83
28·0	1·46·77	1·47·09	1·46·80	1·46·89					1·46·96	1·46·91	1·46·90	1·46·97
33·0	1·46·77	1·47·03	1·46·80	1·46·89	1·47·15	1·47·04	1·46·72	1·46·77	1·47·09	1·46·90	1·47·01	1·46·97
38·0	1·46·84	1·47·03	1·46·88	1·46·89					1·47·09	1·46·90	1·47·15	1·46·97
43·0	1·46·84	1·46·99	1·47·03	1·46·89					1·47·23	1·46·97	1·47·15	1·47·11
48·0	1·46·92	1·46·99	1·47·32	1·46·78					1·47·22	1·46·82	1·47·15	1·47·11
53·0	1·47·20	1·46·89	1·47·43	1·46·75					1·47·21	1·46·75	1·47·04	1·47·05
58·0	1·47·15	1·46·79	1·47·26	1·46·82					1·46·92	1·46·89	1·47·04	1·46·98

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	15′348	15′966	15′828	14′528	13′562	12′876	12′669	12′669	12′188	13′562	14′317	14′249	13′700
5·0	15·553	15·966	15·623	14·179	13·389					13·630	14·386	14·249	13·630
10·0	15·623	15·966	15·623	14·076	13·389					13·768	14·454	14·249	13·562
15·0	15·553	16·034	15·416	13·906	13·355					13·837	14·386	14·111	13·562
20·0	15·623	16·068	15·348	13·906	13·287					13·906	14·454	14·042	13·493
25·0	15·760	16·068	15·211	13·906	13·287					13·974	14·454	14·008	13·426
30·0	15·760	16·034	15·142	13·906	13·287	12·703	13·219	12·326	12·635	13·974	14·454	13·974	13·355
35·0	15·828	16·034	14·936	13·906	13·047					14·008	14·454	13·974	13·355
40·0	15·828	16·034	14·832	13·837	13·115					14·111	14·386	13·906	13·287
45·0	15·897	16·034	14·762	13·837	13·150					14·249	14·386	13·837	13·355
50·0	15·897	16·034	14·592	13·837	13·150					14·249	14·386	13·768	13·219
55·0	15·966	16·000	14·592	13·630	13·047					14·249	14·317	13·768	13·150

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	18·275	18·550	18·760	18·950	19·050	18·950	18·550	18·540	18·460	18·300	18·100	18·070	18·020
7·0	18·310	18·570	18·765	18·950	19·050					18·300	18·100	18·050	18·000
12·0	18·260	18·570	18·770	18·950	19·050					18·300	18·100	18·050	17·980
17·0	18·320	18·600	18·770	18·950	19·015					18·230	18·100	18·050	17·960
22·0	18·345	18·600	18·770	18·950	19·000					18·200	18·090	18·040	17·950
27·0	18·370	18·630	18·820	18·950	19·000					18·200	18·090	18·020	17·950
32·0	18·385	18·650	18·850	18·950	19·000	18·900	18·750	18·460	18·350	18·190	18·090	18·020	17·920
37·0	18·400	18·660	18·850	19·000	18·975					18·120	18·080	18·020	17·910
42·0	18·400	18·670	18·860	19·010	18·950					18·110	18·090	18·040	17·940
47·0	18·470	18·690	18·850	19·000	18·950					18·110	18·070	18·020	17·930
52·0	18·490	18·740	18·860	19·000	18·950					18·110	18·060	18·020	17·910
57·0	18·500	18·760	18·950	19·000	18·960					18·110	18·050	18·020	17·920
Therm.	82°2	82°8	83°5	84°3	85°0	85°7	86°0	86°2	86°5	86°5	86°0	85°6	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	1·01·50	0·45·50	0·12·50	−0·18·50	−0·27·30					−0·27·40	−0·19·00	−0·27·90	−0·20·80
8·0	1·01·50	0·45·50	0·01·50	−0·18·50	−0·27·30					−0·27·40	−0·19·00	−0·27·90	−0·20·80
13·0	1·01·50	0·45·50	0·01·50	−0·18·50	−0·41·00					−0·27·40	−0·19·00	−0·27·90	−0·20·80
18·0	0·45·50	1·10·90	0·01·50	−0·18·50	−0·41·00					−0·27·40	−0·19·00	−0·27·90	−0·20·80
23·0	0·45·50	1·10·90	−0·06·20	−0·18·50	−0·41·00					−0·27·40	−0·19·00	−0·20·80	−0·20·80
28·0	0·45·50	1·10·90	−0·06·20	−0·18·50	−0·41·00	−1·07·35	−1·02·25	−1·17·40	−0·44·85	−0·27·40	−0·19·00	−0·20·80	−0·20·80
33·0	0·45·50	1·10·90	−0·06·20	−0·22·90	−0·41·00					−0·23·65	−0·19·00	−0·20·80	−0·20·80
38·0	0·45·50	0·29·60	−0·15·70	−0·22·90	−0·41·00					−0·23·65	−0·19·00	−0·20·80	−0·20·80
43·0	0·45·50	0·29·60	−0·15·70	−0·22·90	−0·44·85					−0·19·00	−0·19·00	−0·20·80	−0·20·80
48·0	0·45·50	0·21·50	−0·15·70	−0·22·90	−0·44·85					−0·19·00	−0·19·00	−0·20·80	−0·20·80
53·0	0·45·50	0·21·50	−0·18·50	−0·27·30	−0·44·85					−0·19·00	−0·27·90	−0·20·80	−0·20·80
58·0	0·45·50	0·12·50	−0·18·50	−0·27·30	−1·02·40	−1·07·35	−1·12·90	−1·09·50	−0·27·40	−0·19·00	−0·27·90	−0·20·50	−0·20·80
Therm.	83°5	83°3	83°4	84°0	84°5	85°0	85°4	85°6	86°0	86°0	86°0	85°5	85°0

TERM HOUR OBSERVATIONS ON THE 20TH AND 21ST JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′08	16′97	15′51	14′73	13′94	14′20	13′94	13′42	14′78	15′51	15′51	14′88
5·0	17·08	16·82	15·35	14·73					14·93	15·51	15·45	14·78
10·0	17·13	16·76	15·25	14·67					14·88	15·51	15·30	14·73
15·0	17·13	16·61	15·19	14·52					14·99	15·51	15·25	14·73
20·0	17·18	16·56	15·09	14·57					15·09	15·56	15·25	14·67
25·0	17·18	16·45	14·99	14·47					15·09	15·56	15·19	14·52
30·0	17·18	16·30	14·99	14·47	13·94	14·47	13·42	13·94	15·14	15·56	15·09	14·47
35·0	17·23	16·14	14·99	14·47					15·25	15.61	15·04	14·47
40·0	17·18	16·04	14·88	14·40					15·30	15·61	15·04	14·47
45·0	17·08	15·92	14·83	14·25					15·40	15·56	14·99	14·47
50·0	17·08	15·71	14·83	14·20					15·51	15·56	14·99	14·35
55·0	17·08	15·51	14·78	14·04					15·51	15·56	14·99	14·35

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·360	29·500	29·670	29·760	29·680	29·550	29·200	29·130	29·080	28·900	28·900	28·900
7·0	29·380	29·500	29·700	29·780					29·080	28·920	28·900	28·900
12·0	29·390	29·510	29·700	29·780					29·050	28·930	28·900	28·900
17·0	29·400	29·500	29·700	29·780					29·020	28·970	28·910	28·900
22·0	29·420	29·500	29·720	29·740					29·000	28·920	28·900	28·900
27·0	29·420	29·500	29·710	29·720					29·000	28·880	28·900	28·900
32·0	29·430	29·530	29·700	29·700	29·600	29·400	29·140	29·120	29·000	28·880	28·900	28·920
37·0	29·450	29·560	29·700	29·680					29·000	28·860	28·900	28·930
42·0	29·470	29·580	29·720	29·650					28·970	28·880	28·950	28·950
47·0	29·480	29·600	29·720	29·630					28·930	28·870	28·930	28·980
52·0	29·480	29·620	29·720	29·650					28·900	28·900	28·910	28·970
57·0	29·500	29·650	29·700	29·650					28·900	28·900	28·910	28·920
Therm.	80°0	80°2	81°4	82°2	83°0	84°0	84°4	84°9	84°4	84°0	83°9	82°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′30	1°47′16	1°47′30	1°46′77	1°47′10	1°46′67	1°46′74	1°46′83	1°46′77	1°47′10	1°47′03	1°46′91
8·0	1·47·30	1·47·10	1·46·96	1·46·60					1·46·84	1·47·17	1·47·03	1·46·84
13·0	1·47·30	1·47·10	1·46·86	1·46·74					1·46·84	1·47·23	1·47·17	1·46·77
18·0	1·47·22	1·46·89	1·46·83	1·46·71					1·46·76	1·47·17	1·47·03	1·46·77
23·0	1·47·25	1·46·97	1·46·83	1·46·64					1·46·83	1·47·23	1·46·96	1·46·70
28·0	1·47·25	1·46·98	1·46·83	1·46·64					1·46·89	1·47·23	1·46·93	1·46·78
33·0	1·47·22	1·46·91	1·46·98	1·46·79	1·47·06	1·47·29	1·46·69	1·46·71	1·46·89	1·47·23	1·46·89	1·46·70
38·0	1·47·22	1·46·84	1·46·91	1·46·69					1·46·93	1·47·23	1·46·89	1·46·70
43·0	1·47·22	1·46·89	1·47·05	1·47·05					1·46·89	1·47·17	1·46·83	1·46·64
48·0	1·47·37	1·47·10	1·47·05	1·47·22					1·47·03	1·47·17	1·46·76	1·46·70
53·0	1·47·37	1·47·08	1·47·05	1·47·37					1·47·03	1·47·17	1·46·84	1·46·86
58·0	1·47·34	1·47·22	1·46·84	1·47·27					1·47·03	1·47·10	1·46·84	1·46·93

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16'034	15'966	15'074	12'601	11'845	11'368	11'088	11'431	12'876	13'837	13'459	13'355	13'630
5·0	16·309	16·034	14·798	12·326	11·918					13·837	13·389	13·425	13·493
10·0	16·309	16·172	14·626	12·188	11·981					13·802	13·355	13·562	13·493
15·0	16·378	15·931	14·523	12·050	11·913					13·837	13·389	13·768	13·425
20·0	16·584	16·034	14·249	12·050	11·913					13·837	13·287	13·768	13·425
25·0	16·584	16·034	13·908	11·913	11·845					13·630	13·355	13·768	13·425
30·0	16·378	15·931	13·768	11·845	11·569	10·882	10·882	12·119	13·562	13·630	13·321	13·937	13·425
35·0	16·172	15·897	13·562	11·776	11·569					13·630	13·287	13·768	13·425
40·0	16·034	15·862	13·287	11·845	11·535					13·596	13·287	13·802	13·425
45·0	16·034	15·691	13·219	11·845	11·569					13·562	13·253	13·734	13·287
50·0	16·034	15·485	13·013	11·845	11·501					13·562	13·287	13·700	13·219
55·0	16·000	15·280	12·808	11·845	11·431					13·493	13·355	13·630	13·150

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*,

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·075	19·040	18·950	18·825	19·030	19·020	18·750	18·670	18·500	19·090	17·730	17·560	17·650
7·0	19·035	19·010	18·870	18·875	19·070					18·060	17·720	17·510	17·650
12·0	19·080	18·890	18·850	18·930	19·060					18·020	17·700	17·510	17·650
17·0	19·045	18·900	18·860	18·960	19·030					18·000	17·690	17·505	17·650
22·0	19·125	18·910	18·830	18·965	19·030					17·950	17·690	17·505	17·650
27·0	19·075	18·950	18·855	18·970	18·910					17·950	17·680	17·540	17·680
32·0	19·140	18·950	18·875	19·000	19·910	18·960	18·725	18·600	18·220	17·920	17·620	17·580	17·640
37·0	19·025	18·910	18·850	19·010	18·900					17·890	17·610	17·560	17·660
42·0	19·125	18·900	18·830	19·010	18·930					17·820	17·600	17·570	17·710
47·0	19·130	18·910	18·775	19·020	18·960					17·820	17·600	17·610	17·750
52·0	19·110	18·950	18·800	18·990	18·960					17·800	17·600	17·640	17·730
57·0	19·075	18·960	18·800	19·030	18·930					17·780	17·590	17·650	17·740
Therm.	82°2	82°3	82°7	84°3	85°2	85°8	85°2	86°3	87°0	87°0	86°8	86°4	85°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*,

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·42·20	0·37·80	0·03·60	-0·24·50	-0·22·50	-0·40·00				-0·21·95	-0·40·00	-0·37·50	-0·31·90
8·0	0·42·20	0·37·80	-0·03·10	-0·24·50	-0·22·50					-0·24·75	-0·40·00	-0·37·50	-0·31·90
13·0	0·42·20	0·37·80	-0·03·10	-0·24·50	-0·22·50					-0·24·75	-0·40·00	-0·37·50	-0·31·90
18·0	0·42·20	0·28·80	-0·03·10	-0·26·50	-0·23·50					-0·24·75	-0·40·00	-0·37·50	-0·31·90
23·0	0·42·20	0·28·80	-0·13·70	-0·26·50	-0·23·50					-0·24·75	-0·40·00	-0·37·50	-0·21·30
28·0	0·42·20	0·28·80	-0·13·70	-0·26·50	-0·27·60	-0·47·25	-0·47·25	-0·15·90	-0·15·90	-0·24·75	-0·40·00	-0·37·50	-0·21·30
33·0	0·42·20	0·28·80	-0·18·75	-0·26·50	-0·27·60					-0·19·00	-0·40·00	-0·37·50	-0·21·30
38·0	0·42·20	0·18·00	-0·18·75	-0·24·00	-0·31·50					-0·19·00	-0·40·00	-0·37·50	-0·21·30
43·0	0·42·20	0·18·00	-0·23·75	-0·22·50	-0·34·00					-0·19·00	-0·40·00	-0·37·50	-0·21·30
48·0	0·37·80	0·10·80	-0·23·75	-0·22·50	-0·34·00					-0·38·30	-0·40·00	-0·37·50	-0·21·30
53·0	0·37·80	0·10·80	-0·23·75	-0·22·50	-0·34·00					-0·38·30	-0·40·00	-0·31·90	-0·21·30
58·0	0·37·80	0·03·60	-0·24·50	-0·22·50	-0·38·80	-0·47·25	-0·26·15	-0·15·90	-0·21·95	-0·38·30	-0·37·50	-0·31·90	-0·21·30
Therm.	84°0	83°7	83°9	84°2	84°6	85°0	85°5	86°0	86°5	87°0	87°1	87°1	86°4

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17′13	16′24	13′57	13′05	12′52	12′37	12′78	14′04	14′83	14′40	14′47	14′67
5·0	17·18	16·04	13·42	13·10					14·93	14·47	14·47	14·47
10·0	17·18	15·92	13.36	13·10					14·88	14·47	14·62	14·47
15·0	17·18	15·66	13·16	13·05					14·99	14·47	14·73	14·47
20·0	17·08	15·51	13·10	13·00					14·99	14·47	14·88	14·47
25·0	17·09	15·25	12·95	12·95					14·88	14·40	14·99	14·47
30·0	17·08	14·99	12 95	12·90	12·11	12·00	13·42	14·62	14·78	14·35	14·99	14·47
35·0	17·08	14·73	13·00	12·83					14·78	14·47	14·99	14·47
40·0	17·02	14·47	12·95	12·68					14·78	14·40	14·99	14·40
45·0	16·76	14.20	12·95	12·63					14·73	14·40	14·83	14·35
50·0	16·61	13·99	12·95	12·63					14·67	14·35	14·78	14·25
55·0	16·50	13·83	13·00	12·63					14·47	14·40	14·73	14·20

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	29·700	29·520	29·500	29·800	29·700	29·375	29·380	29·190	28·700	28·440	28·230	28·400
7·0	29·700	29·490	29·520	29·810					28·700	28·430	28·200	28·400
12·0	29·650	29·450	29·600	29·800					28·705	28·400	28·200	28·400
17·0	29·600	29·430	29·600	29·730					28·680	28·380	28·190	28·420
22·0	29·600	29·400	29·600	29·650					28·650	28·350	28·200	28·430
27·0	29·600	29·430	29·600	29·600					28·620	28·340	28·200	28·420
32·0	29·580	29·440	29·590	29·590	29·595	29·390	29·300	28·900	28·600	28·300	28·220	28·430
37·0	29·540	29·400	29·620	29·600					28·540	28·300	28·250	28·440
42·0	29·500	29·420	29·650	29·650					28·500	28·290	28·300	28·520
47·0	29·500	29·430	29·690	29·690					28·500	28·230	28·340	28·590
52·0	29·500	29·490	29·700	29·700					28·520	28·210	28·400	28·580
57·0	29·580	29·500	29·720	29·700					28·490	28·200	28·400	28·530
Therm.	80°0	80°3	81°4	82°1	83°0	84°0	84°4	84°6	84°2	84°1	84°0	83°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°47′31	1°46′98	1°47′10	1°46′91	1°47′01	1°46′88	1°46′93	1°46′95	1°47′05	1°47′24	1°47′29	1°47′13
8·0	1·47·37	1·47·02	1·46·97	1·46·84					1·47·05	1·47·32	1·47·29	1·47·27
13·0	1·47·51	1·46·92	1·46·83	1·46·91					1·47·01	1·47·29	1·47·06	1·47·42
18·0	1·47·12	1·47·30	1·46·98	1·46·98					1·47·05	1·47·46	1·47·12	1·47·36
23·0	1·47·37	1·47·17	1·47·12	1·47·27					1.47·05	1·47·36	1·47·12	1·47·36
28·0	1·47·37	1·46·98	1·47·27	1·47·35					1·46·98	1·47·43	1·46·98	1·47·36
33·0	1·47·27	1·46·98	1·47·35	1·47·22	1·46·82	1·46·82	1·47·05	1·47·20	1·46·98	1·47·39	1·47·05	1·47·36
38·0	1·47·38	1·47·06	1·47·14	1·47·22					1·46·98	1·47·22	1·46·98	1·47·49
43·0	1·47·34	1·47·22	1·47·21	1·47·19					1·46·95	1·47·22	1·47·01	1·47·49
48·0	1·47·17	1·47·44	1·47·21	1·47·22					1·46·91	1·47·32	1·47·08	1·47·36
53·0	1·46·97	1·47·23	1·47·06	1·47·15					1·46·91	1·47·36	1·46·05	1·47·29
58·0	1·46·91	1·47·17	1·47·06	1·47·08					1·46·99	1·47·29	1.47·13	1·47·37

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′068	16′618	15′828	14′454	13′562	12′876	11′501	10′814	11′225	12′601	13′389	13′906	13′906
5·0	16·136	16·653	15·897	14·882	13·562					12·738	13·562	13·906	13·974
10·0	16·102	16·447	15·828	14·454	13·287					12·738	13·562	13·940	13·974
15·0	16·172	16·584	15·623	14·249	13·287					12·876	13·700	14·042	13·906
20·0	16·102	16·653	15·623	14·111	13·219					12·944	13·837	14·042	13·768
25·0	16·034	16·515	15·623	13·974	13·219					13·013	13·837	13·974	13·700
30·0	16·274	16·515	15·348	13·906	13·219	12·188	10·848	10·882	11·345	13·081	13·837	13·974	13·630
35·0	16·447	16·447	15·142	13·837	13·150					13·150	13·837	13·974	13·630
40·0	16·240	16·309	15·074	13·768	12·876					13·219	13·837	13·974	13·630
45·0	16·309	15·966	14·798	13·493	12·601					13·219	13·837	13·906	13·630
50·0	16·309	16·136		13·700	12·806					13·326	13·837	13·906	13·630
55·0	16·447	16·034	14·523	13·562	12·876					13·287	13·837	13·906	13·355

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·530	18·600	18·700	19·030	19·205	19·290	19·175	19·400	19·380	19·110	18·860	18·500	18·200
7·0	18·550	18·570	18·700	19·100	19·250					19·070	18·840	18·445	18·210
12·0	18·525	18·535	18·730	19·050	19·250					19·020	18·810	18·430	18·150
17·0	18·565	18·560	18·680	19·105	19·255					18·980	18·790	18·405	18·120
22·0	18·575	18·570	18·745	19·120	19·250					18·940	18·770	18·440	18·110
27·0	18·550	18·635	18·790	19·140	19·250					18·920	18·750	18·350	18·150
32·0	18·600	18·660	18·780	19·165	19·250	29·300	19·250	19·420	19·200	18·915	18·740	18·350	18·150
37·0	18·625	18·650	18·775	19·180	19·305					18·915	18·740	18·350	18·150
42·0	18·555	18·650	18·810	19·185	19·290					18·930	18·710	18·320	18·130
47·0	18·560	18·700	18·850	19·170	19·290					18·900	18·690	18·340	18·150
52·0	18·570	18·680		19·180	19·295					18·910	18·650	18·245	18·160
57·0	18·645	18·670	18·950	19·200	19·275					18·910	18·630	18·250	18·110
Therm.	81°0	81°0	81°0	80°9	81°7	82°0	82°5	82°7	83°8	84°0	83°0	82°0	81°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h.	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·04·50	0·10·10	0·03·20	−0·08·80	−0·25·50					−0·43·25	−0·30·15	−0·21·90	−0·21·90
8·0	0·09·10	0·10·10	0·03·20	−0·08·80	−0·25·50					−0·43·25	−0·30·15	−0·21·90	−0·21·90
13·0	0·09·10	0·10·10	0·03·20	−0·08·80	−0·25·50					−0·43·25	−0·27·00	−0·21·90	−0·21·90
18·0	0·09·10	0·10·10	0·03·20	−0·09·00	−0·25·50					−0·43·25	−0·27·00	−0·21·90	−0·28·50
23·0	0·09·10	0·10·10	0·03·20	−0·13·50	−0·34·35					−0·41·75	−0·27·00	−0·21·90	−0·28·50
28·0	0·05·60	0·03·20	0·03·20	−0·13·50	−0·34·35	−1·03·50	−0·37·80	−0·49·90	−0·40·00	−0·38·60	−0·27·00	−0·21·90	−0·28·50
33·0	0·05·60	0·03·20	−0·02·85	−0·13·50	−0·34·35					−0·38·60	−0·27·00	−0·21·90	−0·38·50
38·0	0·05·60	0·03·20	−0·02·85	−0·18·65	−0·34·35					−0·38·60	−0·27·00	−0·21·90	−0·38·50
43·0	0·05·60	0·03·20	−0·02·85	−0·18·65	−0·37·70					−0·34·60	−0·27·00	−0·21·90	−0·38·50
48·0	0·05·60	0·03·20	−0·02·85	−0·19·00	−0·37·70					−0·34·60	0·27·00	−0·21·90	−0·38·50
53·0	0·10·10	0·03·20		−0·21·00	−0·46·95					−0·34·60	−0·21·90	−0·21·90	−0·38·50
58·0	0·10·10	0·03·20	−0·08·80	−0·22·65	−0·46·95	−1·03·50	−0·48·60	−0·43·10	−0·40·00	−0·30·15	−0·21·90	−0·21·90	−0·38·50
Therm.	82°5	81°6	81°1	80°7	81°3	81°5	81°5	82°0	82°1	83°2	83°2	82°7	82°4

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'08	16'56	15'19	14'20	13'42	12'68	11'14	11'85	13'36	14'04	14'47	14'73
5·0	17·13	16·45	15·09	14·09					13·42	14·09	14·47	14·78
10·0	17·13	16·24	14·99	13·99					13·47	14·25	14·52	14·83
15·0	17·08	16·04	14·99	13·94					13·47	14·40	14·57	14·73
20·0	17·08	16·04	14·88	13·94					13·52	14·47	14·73	14·62
25·0	17·06	15·97	14·83	13·88					13·68	14·47	14·67	14·47
30·0	17·08	15·82	14·78	13·73	12·63	11·38	11·33	12·78	13·73	14·47	14·67	14·47
35·0	16·97	15·77	14·73	13·68					13·78	14·30	14·73	14·47
40·0	16·82	15·61	14·62	13·62					13·83	14·25	14·67	14·47
45·0	16·76	15·51	14·47	13·47					13·83	14·30	14·67	14·40
50·0	16·66	15·40	14·47	13·42					13·88	14·35	14·67	14·25
55·0	16·56	15·25	14·35	13·42					13·94	14·47	14·67	14·09

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·400	29·620	29·700	29·800	29·990	29·950	30·040	30·040	29·650	29·500	29·260	28·600
7·0	29·350	29·650	29·700	29·820					29·540	29·480	29·200	28·600
12·0	29·380	29·650	29·690	29·830					29·540	29·430	29·130	28·600
17·0	29·400	29·650	29·700	29·840					29·580	29·350	29·080	28·600
22·0	29·400	29·670	29·720	29·820					29·600	29·300	28·980	28·590
27·0	29·420	29·690	29·720	29·850					29·570	29·280	28·900	28·540
32·0	29·460	29·650	29·700	29·850	30·050	30·050	30·240	29·800	29·580	29·270	28·880	28·500
37·0	29·490	29·650	29·700	29·870					29·520	29·240	28·800	28·520
42·0	29·500	29·680	29·710	29·900					29·550	29·400	28·740	28·530
47·0	29·530	29·700	29·700	29·940					29·570	29·458	28·700	28·570
52·0	29·600	29·700	29·720	29·950					29·590	29·390	28·660	28·620
57·0	29·600	29·700	29·750	29·980					29·620	29·32	28·620	28·600
Therm.	77°0	76°3	76°4	77°4	77°8	78°2	78°7	78°8	79°6	78°2	78°1	78°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47'67	1°47'31	1°47'38	1°47'34	1°47'24	1°47'29	1°47'18	1°47'01	1°47'24	1°47'32	1°47'12	1°47'12
8·0	1·47·70	1·47·38	1·47·75	1·47·49					1·47·24	1·47·49	1·47·12	1·47·18
13·0	1·47·50	1·47·46	1·47·37	1·47·22					1·47·24	1·47·34	1·47·15	1·47·18
18·0	1·47·77	1·47·28	1·47·32	1·47·51					1·47·35	1·47·48	1·47·25	1·47·26
23·0	1·47·84	1·47·25	1·47·18	1·47·44					1·47·30	1·47·48	1·47·25	1·47·27
28·0	1·47·70	1·47·39	1·47·04	1·47·44					1·47·37	1·47·48	1·47·18	1·47·20
33·0	1·47·70	1·47·26	1·47·12	1·47·44	1·46·97	1·46·64	1·46·96	1·47·21	1·47·44	1·47·20	1·47·18	1·47·13
38·0	1·47·64	1·47·05	1·47·05	1·47·37					1·47·51	1·47·05	1·47·18	1·47·13
43·0	1·47·50	1·47·29	1·46·98	1·47·10					1·47·44	1·47·05	1·47·18	1·47·13
48·0	1·47·31	1·47·29	1·46·84	1·46·96					1·47·29	1·47·05	1·47·12	1·47·13
53·0	1·47·47		1·47·05	1·47·17					1·47·40	1·47·05	1·47·12	1·47·13
58·0	1·47·51	1·47·30	1·47·06	1·47·24					1·47·36	1·47·05	1·47·12	1·47·13

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′348	15′348	14′592	13′562	12′188	11′191	11′259	11′603	12′188	13′768	14′592	14′936	13′336
5·0	15·416	15·348	14·592	13·562	12·015					13·837	14·592	14·936	13·111
10·0	15·485	14·280	14·523	13·562	11·913					13·906	14·592	14·936	13·974
15·0	15·416	15·280	14·249	13·562	11·845					13·906	14·694	14·936	13·837
20·0	15·485	15·211	14·111	13·389	11·845					14·111	14·728	14·867	13·837
25·0	15·485	15·280	13·974	13·115	11·845					14·145	14·798	14·867	13·802
30·0	15·485	15·211	13·974	12·876	11·776	10·951	11·569	13·639	13·013	14·249	14·936	14·798	13·630
35·0	15·485	15·074	13·974	12·876	11·501					14·317	14·936	14·798	13·498
40·0	15·485	14·936	13·974	12·703	11·501					14·386	14·936	14·798	13·425
45·0	15·382	14·798	13·940	12·533	11·501					14·386	14·936	14·728	13·425
50·0	15·382	14·660	13·940	12·428	11·501					14·523	14·867	14·592	13·287
55·0	15·416	14·592	13·906	12·188	11·431					14·592	14·867	14·454	13·287

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·645	18·860	19·050	19·385	19·700	19·450	19·200	19·080	18·920	18·800	18·500	18·250	18·250
7·0	18·650	18·950	19·040	19·415	19·600					18·770	18·450	18·250	18·260
12·0	18·670	18·950	19·150	19·500	19·600					18·720	18·400	18·250	18·270
17·0	18·700	19·000	19·150	19·650	19·600					18·720	18·400	18·250	18·280
22·0	18·700	19·050	19·150	19·700	19·550					18·715	18·380	18·250	18·275
27·0	18·700	19·060	19·150	19·700	19·500					18·700	18·320	18·250	18·260
32·0	18·690	19·060	19·150	19·700	19·450	19·250	19·150	18·960	18·880	18·670	18·320	18·240	18·250
37·0	18·750	18·990	19·160	19·725	19·450					18·620	18·340	18·250	18·260
42·0	18·750	19·050	19·190	19·700	19·450					18·600	18·310	18·250	18·250
47·0	18·750	19·070	19·250	19 700	19·450					18·600	18·310	18·250	18·295
52·0	18·800	19·030	19·250	19·700	19·450					18·520	18·300	18·250	18·320
57·0	18·850	19·150	19·300	19·750	19·450					18·500	18·300	18·250	18·265
Therm.	81°0	81°0	82°0	82°0	83°5	84°0	84°5	85°0	84°4	84°0	83°9	82°9	82°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	0·07·00	−0·06·00	−0·24·10	−0·37·55	−1·08·25					−0·07·50	0·12·50	−0·00·50	−0·17·20
8·0	0·07·00	−0·06·00	−0·24·10	−0·37·55	−1·08·25					−0·07·50	0·12·50	−0·00·50	−0·17·20
13·0	0·07·00	−0·06·00	−0·32·60	−0·37·55	−1·08·25					0·05·50	0·12·50	−0·06·00	−0·22·80
18·0	0·00·20	−0·06·00	−0·32·60	−0·37·55	−1·12·10					0·01·65	0·12·50	−0·06·00	−0·22·80
23·0	0·00·20	−0·12·20	−0·32·60	−0·37·55	−1·12·10					0·01·65	0·12·50	−0·06·00	−0·32·40
28·0	0·00·20	−0·12·20	−0·32·60	−0·44·60	−1·12·10	−1·16·65	−1·13·00	−1·11·90	−0·35·00	0·01·65	0·07·00	−0·06·00	−0·32·40
33·0	0·00·20	−0·12·20	−0·32·60	−0·44·60	−1·12·10					0·01·65	0·07·00	−0·06·00	−0·32·40
38·0	0·00·20	−0·12·20	−0·32·60	−0·44·60	−1·12·10					0·06·45	0·07·00	−0·12·10	−0·39·30
43·0	0·00·20	−0·19·60	−0·32·60	−1·03·85	−1·20·70					0·06·45	0·07·00	−0·12·10	−0·39·30
48·0	0·00·20	−0·19·60	−0·32·60	−1·03·85	−1·20·70					0·06·45	0·07·00	−0·12·10	−0·39·30
53·0	−0·06·00	−0·24·10	−0·32·60	−1·08·25	−1·20·70					0·06·45	−0·00·50	−0·17·20	−0·39·30
58·0	−0·06·00	−0·24·10	−0·37·55	−1·08·25	−1·29·75	−1·10·20	−1·20·15	−0·48·70	−0·11·90	0·12·50	−0·00·50	−0·17·20	−0·39·30
Therm.	82°5	82°0	82°2	82°0	82°5	83°1	83°7	84°3	84°0	83°6	83°2	83°0	82°7

TERM HOUR OBSERVATIONS ON THE 27TH AND 28TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′30	15′51	14′47	12′95	12′11	12′05	12′37	12′90	14′62	15′30	15′56	14′99
5·0	16·24	15·45	14·47	12·90					14·67	15·30	15·56	14·99
10·0	16·24	15·25	14·40	12·78					14·73	15·51	15·56	14·78
15·0	16·19	14·99	14·35	12·68					14·83	15·51	15·56	14·62
20·0	16·09	14·78	14·20	12·63					14·99	15·51	15·56	14·47
25·0	16·04	14·78	13·99	12·52					15·04	15·51	15·56	14·47
30·0	16·04	14·73	13·83	12·37	12·11	12·37	12·47	13·99	15·14	15·56	15·56	14·40
35·0	15·97	14·73	13·68	12·42					15·19	15·61	15·51	14·35
40·0	15·82	14·67	13·62	12·47					15·25	15·61	15·40	14·20
45·0	15·71	14·52	13·47	12·37					15·25	15·61	15·35	14·09
50·0	15·51	14·47	13·31	12·37					15·25	15·66	15·25	14·04
55·0	15·51	14·47	13·16	12·26					15·30	15·66	15·14	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·200	29·040	29·690	29·940	29·590	29·325	29·200	29·180	29·000	28·690	28·500	28·620
7·0	29·180	29·000	29·740	29·900					28·980	28·670	28·530	28·650
12·0	29·170	29·090	29·800	29·880					28·940	28·620	28·520	28·640
17·0	29·150	29·240	29·840	29·820					28·910	28·580	28·530	28·640
22·0	29·140	29·390	29·890	29·770					28·900	28·530	28·540	28·630
27·0	29·130	29·400	29·900	29·750					28·900	28·490	28·550	28·600
32·0	29·100	29·400	29·900	29·700	29·400	29·250	29·200	29·100	28·860	28·490	28·580	28·600
37·0	29·080	29·390	29·900	29·640					28·850	28·460	28·590	28·600
42·0	29·050	29·380	29·900	29·600					28·820	28·500	28·600	28·640
47·0	29·070	29·470	29·880	29·600					28·790	28·500	28·600	28·680
52·0	29·120	29·600	29·920	29·600					28·760	28·500	28·600	28·670
57·0	29·080	29·630	29·900	29·600					28·700	28·500	28·600	28·630
Therm.	78°0	79°4	79°2	80°2	81°0	82°0	82°5	82°0	81°5	81°0	80°2	79°6

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°46′98	1°47′37	1°46′63	1°46′69	1°46′98	1°47′05	1°46′96	1°47′12	1°47′12	1°47′37	1°47′16	1°47′17
8·0	1·46·98	1·47·37	1·46·91	1·46·65					1·47·05	1·47·37	1·47·16	1·47·03
13·0	1·46·91	1·47·30	1·47·20	1·46·69					1·47·12	1·47·22	1·47·00	1·47·04
18·0	1·46·91	1·47·17	1·47·34	1·46·78					1·47·12	1·47·32	1·47·00	1·47·91
23·0	1·46·98	1·47·03	1·47·32	1·46·92					1·47·18	1·47·36	1·46·93	1·47·05
28·0	1·47·05	1·46·89	1·47·18	1·47·06					1·47·22	1·47·43	1·46·78	1·46·01
33·0	1·46·98	1·46·89	1·47·10	1·47·00	1·46·74	1·47·29	1·47·00	1·47·08	1·47·32	1·47·57	1·46·71	1·46·98
38·0	1·46·98	1·47·04	1·47·10	1·46·86					1·47·39	1·47·57	1·46·71	1·46·84
43·0	1·47·16	1·47·04	1·47·06	1·47·00					1·47·31	1·47·57	1·46·86	1·46·78
48·0	1·47·14	1·47·01	1·46·89	1·47·00					1·47·31	1·47·43	1·47·07	1·46·93
53·0	1·47·29	1·47·01	1·46·79	1·47·00					1·47·49	1·47·21	1·47·08	1·47·07
58·0	1·47·22	1·46·92	1·46·69	1·47·08					1·47·51	1·47·21	1·47·08	1·47·22

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH JULY 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·931	16·721	16·653	15·211	14·111	13·219	12·806	13·493	14·042	14·660	15·142	15·004	14·111
5·0	15·966	16·858	16·584	14·762	13·923					14·660	15·108	14·936	13·974
10·0	16·034	16·996	16·515	14·660	13·906					14·798	15·142	14·867	13·906
15·0	16·172	16·926	16·309	14·592	13·906					14·867	15·142	14·728	13·700
20·0	16·240	16·960	16·034	14·592	13·562					14·936	15·142	14·660	13·630
25·0	16·378	16·996	16·034	14·592	13·562					14·936	15·142	14·660	13·493
30·0	16·447	16·996	15·966	14·592	13·562	12·876	12·876	14·042	14·488	14·936	15·074	14·592	13·493
35·0	16·653	16·996	15·623	14·592	13·287					15·004	15·004	14·592	13·355
40·0	16·653	16·996	15·523	14·592	12·115					14·970	15·074	14·523	13·355
45·0	16·515	16·926	15·280	14·592	13·150					15·038	15·074	14·454	13·287
50·0	16·584	16·858	15·280	14·592	13·219					15·074	15·074	14·454	13·150
55·0	16·687	16·721	15·280	14·420	13·150					15·074	15·074	14·317	13·150

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·920	19·140	19·370	19·650	19·600	19·637	19·375	19·110	18·790	18·640	18·750	18·500	18·470
7·0	18·950	19·100	19·370	19·600	19·650					18·640	18·750	18·500	18·470
12·0	19·070	19·100	19·360	19·550	19·650					18·640	18·740	18·480	18·490
17·0	18·930	19·160	19·370	19·550	19·650					18·650	18 700	18·450	18·490
22·0	19·100	19·210	19·420	19·550	19·650					18·660	18·670	18·470	18·495
27·0	19·050	19·250	19·440	19·550	19·650					18·700	18·660	18·440	18·500
32·0	19·080	19·250	19·450	19·550	19·650	19·550	19·250	19·000	18·620	18·700	18·690	18·410	18·500
37·0	19·040	19·250	19·500	19·550	19·675					18·710	18·610	18·405	18·500
42·0	19·025	19·290	19·500	19·550	19·700					18·740	18·600	18·405	18·490
47·0	19·060	19·300	19·600	19·550	19·650					18·750	18·600	18·400	18·470
52·0	19·070	19·300	19·600	19·550	19·600					18·750	18·550	18·405	18·440
57·0	19·070	19·340	19·600	19·550	19·600					19·750	18·510	18·420	18·410
Therm.	80°1	80°6	81°2	82°5	83°0	83°7	84°0	83°9	84°0	83°0	83°5	84°0	83°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·42·00	2·24·80	2·24·80	0·44·25	0·24·55					0·28·40	0·38·15	0·09·80	-0·24·00
8·0	2·02·10	2·24·80	2·24·80	0·44·25	0·24·55					0·33·25	0·38·15	0·09·80	-0·24·00
13·0	2·02·10	2·24·80	2·24·80	0·37·00	0·24·55					0·45·10	0·36·70	0·00·50	-0·30·30
18·0	2·02·10	2·24·80	2·24·80	0·37·00	0·19·10					0·49·50	0·36·70	0·00·50	-0·30·30
23·0	2·10·60	2·24·80	2·24·80	0·37·00	0·19·10					1·03·30	0·26·50	0·00·50	-0·30·30
28·0	2·10·60	2·24·80	2·24·80	0·37·00	0·19·10	0·22·50	0·34·95	0·04·75	0·05·50	1·03·30	0·22·75	-0·07·00	-0·30·30
33·0	2·18·20	2·24·80	2·24·80	0·37·00	0·19·10					1·03·30	0·16·25	-0·07·00	-0·21·30
38·0	2·18·20	2·24·80	0·49·40	0·37·00	0·19·10					1·07·30	0·16·25	-0·07·00	-0·21·30
43·0	2·18·20	2·24·80	0·49·40	0·30·50	0·19·10					1·01·20	0·16·25	-0·16·10	-0·48·30
48·0	2·18·20	2·24·80	0·44·25	0·30·50	0·19·10					1·01·20	0·16·25	-0·16·10	-0·48·30
53·0	2·18·20	2·24·80	0·44·25	0·30·50	0·19·10					0·49·35	0·16·25	-0·22·60	-0·48·30
58·0	2·24·80	2·24·80	0·44·25	0·30·50	0·22·50	0·27·75	0·31·65	0·13·00	0·13·00	0·41·50	0·09·80	-0·24·00	-0·18·90
Therm.	81°7	81°2	81°5	82°0	82°1	82°5	83°0	83°9	83°9	83°3	83°5	84°5	83°8

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH JULY 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17′60	17′60	16′04	15′04	13′94	13′42	14′47	14′99	15′51	16′04	15′97	14′99
5·0	17·60	17·43	15·82	15·04					15·56	16·09	15·92	14·99
10·0	17·65	17·28	15·71	14·99					15·77	16·09	15·82	14·93
15·0	17·60	17·23	15·71	14·78					15·77	16·09	15·77	14·67
20·0	17·60	17·02	15·66	14·62					15·82	16·14	15·61	14·52
25·0	17·65	16·87	15·66	14·47					15·97	16·09	15·51	14·47
30·0	17·70	16·66	15·66	14·25	13·68	13·68	14·99	15·25	16·04	16·04	15·51	14·35
35·0	17·65	16·56	15·51	14·09					16·04	16·04	15·51	14·30
40·0	17·60	16·50	15·30	13·94					16·04	16·04	15·45	14·20
45·0	17·60	16·35	15·25	13·94					16·04	16·04	15·40	14·09
50·0	17·60	16·14	15·25	13·94					16·04	16·04	15·30	13·94
55·0	17·60	16·04	15·19	13·94					16·04	16·04	15·14	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	29·100	29·230	29·520	29·600	29·690	29·400	29·040	28·670	28·610	28·500	28·320	28·350
7·0	29·120	29·240	29·540	29·600					28·590	28·500	28·300	28·390
12·0	29·100	29·270	29·520	29·620					28·630	28·500	28·300	28·400
17·0	29·140	29·230	29·500	29·630					28·520	28·490	28·300	28·390
22·0	29·170	29·270	29·500	29·650					28·500	28·420	28·300	28·380
27·0	29·200	29·300	29·500	29·670					28·500	28·430	28·300	28·400
32·0	29·200	29·350	29·500	29·690	29·500	29·260	28·890	28·675	28·500	28·480	28·300	28·400
37·0	29·200	29·370	29·490	29·700					28·500	28·420	28·300	28·400
42·0	29·200	29·390	29·530	29·700					28·510	28·400	28·300	28·400
47·0	29·200	29·430	29·590	29·700					28·530	28·400	28·300	28·400
52·0	29·200	29·500	29·590	29·700					28·540	28·390	28·290	28·400
57·0	29·200	29·500	29·590	29·700					28·530	28·350	28·320	28·420
Therm.	78°0	78°4	79°7	80°0	80°2	81°2	81°2	81°6	80°2	80°4	81°5	81°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°47·05	1°46·98	1°46·98	1°45·30	1°45·85	1°45·73	1°45·74	1°45·52	1°46·00	1°46·48	1°46·34	1°46·02
8·0	1·47·05	1·46·91	1·46·67	1·45·26					1·46·00	1·46·45	1·46·28	1·45·88
13·0	1·47·19	1·46·85	1·46·57	1·45·39					1·46·14	1·46·48	1·46·21	1·46·13
18·0	1·47·12	1·46·78	1·46·36	1·45·39					1·46·21	1·46·48	1·46·21	1·46·04
23·0	1·47·15	1·46·98	1·46·22	1·45·19					1·46·28	1·46·48	1·46·14	1·46·41
28·0	1·47·05	1·47·22	1·46·07	1·45·33					1·46·28	1·46·48	1·46·29	1·46·27
33·0	1·47·05	1·47·31	1·45·78	1·45·47	1·45·80	1·45·70	1·45·62	1·45·83	1·46·28	1·46·41	1·46·22	1·46·27
38·0	1·47·05	1·46·96	1·45·64	1·45·35					1·46·34	1·46·34	1·46·22	1·46·28
43·0	1·47·05	1·46·96	1·45·78	1·45·34					1·46·31	1·46·41	1·46·15	1·46·28
48·0	1·46·98	1·46·76	1·45·78	1·45·49					1·46·38	1·46·41	1·46·22	1·46·21
53·0	1·47·05	1·46·91	1·45·78	1·45·61					1·46·41	1·46·41	1·46·22	1·46·07
58·0	1·46·91	1·47·05	1·45·61	1·45·78					1·46·41	1·46·41	1·46·09	1·46·07

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14'111	14'592	14'528	14'249	13'287	12'533	12'533	12'394	12'153	12'153	12'394	12'944	13'527
5·0	14·111	14·626	14·454	14·179	13·219					12·050	12·514	12·910	13·425
10·0	14·111	14·626	14·317	14·179	13·219					12·050	12·533	12·944	13·425
15·0	14·179	14·592	14·249	13·940	13·219					11·981	12·533	13·115	14·287
20·0	14·249	14·557	14·249	13·906	12·976					12·015	12·601	13·944	13·253
25·0	14·249	14·557	14·249	13·906	12·806					12·050	12·601	13·910	13·219
30·0	14·249	14·626	14·249	13·630	12·533	12·533	12·497	12·188	12·394	12·119	12·601	13·047	13·184
35·0	14·317	14·592	14·249	13·562	12·583					12·119	12·601	13·219	13·047
40·0	14·523	14·626	14·249	13·562	12·533					12·188	12·601	13·355	13·081
45·0	14·523	14·626	14·249	13·562	12·533					12·188	12·669	13·425	13·081
50·0	14·592	14·626	14·249	13·562	12·533					12·256	12·669	13·493	12·944
55·0	14·592	14·557	14·249	13·562	12·533					12·326	12·806	13·425	12·876

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·840	19·050	19·380	19·600	20·000	20·000	20·100	19·800	19·300	18·815	18·470	18·415	18·545
7·0	18·840	19·050	19·380	19·650	20·000					18·750	18·430	18·375	18·510
12·0	18·875	19·100	19·395	19·650	20·000					18·740	18·400	18·465	18·550
17·0	18·870	19·150	19·400	19·750	20·000					18·670	18·400	18·430	18·510
22·0	18·890	19·145	19·430	19·750	20·000					18·650	18·350	18·495	18·570
27·0	18·880	19·150	19·370	19·850	20·000					18·640	18·329	18·600	18·510
32·0	18·895	19·180	19·405	19·850	20·050	20·050	20·000	19·600	19·000	18·570	18·380	18·550	18·480
37·0	18·950	19·200	19·450	19·900	20·050					18·525	18·400	18·545	18·575
42·0	18·980	19·215	19·487	19·900	20·050					18·500	18·350	18·610	18·515
47·0	19·975	19·270	19·500	19·900	20·050					18·500	18·335	18·530	18·585
52·0	19 000	19·300	19·600	19·900	20·050					18·500	18·330	18·550	18·545
57·0	19·040	19·300	19·600	19·900	20·050					18·500	18·390	18·550	18·590
Therm.	82°0	82°2	82°2	82°0	83°0	84°5	85°0	85°4	85°6	85°6	85°3	82°9	82°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·47·40	1·27·80	1·19·50	1·19·20	0·34·90					−1·14·00	0·00·35	0·38·80	0·37·50
8·0	1·07·70	1·27·90	1·19·50	1·13·15	0·05·60					−1·14·00	0·00·35	0·45·80	0·37·50
13·0	1·07·70	1·27·80	1·19·50	1·13·15	0·05·60					−1·00·50	0·05·40	0·45·80	0·37·50
18·0	1·17·30	1·27·80	1·19·50	1·04·50	−0·02·55					−0·40·10	0·09·90	0·45·80	0·37·50
23·0	1·17·30	1·27·80	1·19·50	1·04·50	−0·02·55					−0·40·10	0·15·00	0·45·80	0·37·50
28·0	1·21·60	1·27·80	1·27·80	0·43·35	−0·06·55	−0·03·60	0·44·45	0·17·90	−0·38·10	−0·33·80	0·23·50	1·03·50	0·30·70
33·0	1·21·60	1·27·80	1·27·80	0·43·35	−0·06·55					−0·23·20	0·23·50	1·03·50	0·30·70
38·0	1·21·60	1·27·80	1·34·10	0·34·90	−0·06·55					−0·23·20	0·23·50	1·03·50	0·30·70
43·0	1·21·60	1·27·80	1·34·10	0·34·90	−0·06·55					−0·16·80	0·23·50	1·03·50	0·30·70
48·0	1·27·80	1·27·80	1·34·10	0·34·90	−0·13·90					−0·16·80	0·23·50	1·13·50	0·30·70
53·0	1·27·80	1·19·50	1·34·10	0·34·90	−0·13·90					−0·05·25	0·34·80	0·45·80	0·30·70
58·0	1·27·80	1·19·50	1·19·20	0·34·90	−0·13·90	0·16·25	0·36·90	−0·20·85	−1·14·00	−0·05·85	0·38·80	0·37·50	0·20·00
Therm.	83°1	82°8	82°5	81°7	82°5	83°9	84°5	84°9	85°3	85°3	85°3	83°5	83°0

TERM HOUR OBSERVATIONS ON THE 1ST AND 2ND AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15′51	15′45	14′99	14′35	13′42	13′42	13′26	13′10	13′10	13′42	13′57	14′20
5·0	15·51	15·25	14·99	14·20					12·95	13·42	13·68	14·09
10·0	15·51	15·19	14·99	14·14					12·95	13·42	13·83	14·04
15·0	15·51	15·09	14·99	13·99					12·90	13·42	13·94	14·04
20·0	15·51	14·99	14·88	13·94					12·90	13·42	13·94	13·99
25·0	15·51	14·99	14·78	13·73					12·90	13·42	13·94	13·94
30·0	15·51	14·99	14·57	13·62	13·68	13·42	13·00	13·42	12·90	13·42	14·04	13·94
35·0	15·45	14·99	14·52	13·68					12·90	13·42	14·09	13·94
40·0	15·45	14·99	14·47	13·52					13·00	13·42	14·20	13·94
45·0	15·45	14·99	14·47	13·62					13·16	13·42	14·25	13·94
50·0	15·45	14·99	14·40	13·47					13·21	13·42	14·30	13·83
55·0	15·45	14·99	14·40	13·52					13·36	13·47	14·35	13·78

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	28·980	29·320	29·880	29·950	29·930	29·900	29·700	29·100	28·670	28·340	28·780	28·600
7·0	28·970	29·400	29·890	29·970					28·630	28·320	28·740	28·630
12·0	28·980	29·460	29·890	29·980					28·600	28·300	28·680	28·650
17·0	29·020	29·540	29·900	29·970					28·530	28·280	28·670	28·700
22·0	29·090	29·590	29·900	29·950					28·500	28·300	28·680	28·700
27·0	29·170	29·680	29·920	29·930					28·500	28·340	28·680	28·700
32·0	29·200	29·700	29·950	29·920	29·950	29·850	29·500	28·820	28·480	28·450	28·670	28·630
37·0	29·230	29·720	29·980	29·940					28·420	28·570	28·650	28·630
42·0	29·250	29·800	30·000	29·950					28·370	28·620	28·610	28·630
47·0	29·300	29·800	30·000	29·940					28·330	28·680	28·590	28·620
52·0	29·300	29·820	29·990	29·970					28·360	28·700	28·540	28·600
57·0	29·300	29·870	29·940	29·940					28·350	28·720	28·530	28·600
Therm.	79°8	79°5	78°4	80°0	81°5	82°0	82°6	83°0	82°3	82°3	80°0	79°9

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′37	1°47′30	1°47′17	1°47′51	1°47′31	1°46′89	1°47′32	1°47′08	1°47′08	1°47′03	1°47′16	1°47′60
8·0	1·47·41	1·47·23	1·47·25	1·47·44					1·47·12	1·47·15	1·47·13	1·47·50
13·0	1·47·41	1·47·10	1·47·25	1·47·44					1·47·26	1·47·17	1·47·16	1·47·50
18·0	1·47·37	1·47·03	1·47·01	1·47·58					1·47·19	1·47·17	1·47·34	1·47·36
23·0	1·47·34	1·47·17	1·47·12	1·47·24					1·47·22	1·47·10	1·47·16	1·47·32
28·0	1·47·34	1·47·17	1·47·12	1·47·17					1·47·26	1·46·96	1·47·13	1·47·44
33·0	1·47·41	1·47·17	1·47·13	1·46·89	1·46·89	1·47·00	1·47·12	1·47·08	1·47·19	1·46·96	1·47·27	1·47·40
38·0	1·47·37	1·47·17	1·47·20	1·47·08					1·47·19	1·46·96	1·47·44	1·47·27
43·0	1·47·41	1·47·17	1·47·34	1·47·03					1·47·12	1·46·96	1·47·58	1·47·30
48·0	1·47·41	1·47·17	1·47·49	1·47·17					1·47·12	1·47·03	1·47·65	1·47·44
53·0	1·47·41	1·47·17	1·47·63	1·47·17					1·47·04	1·47·03	1·47·71	1·47·30
58·0	1·47·34	1·47·17	1·47·63	1·47·17					1·47·97	1·47·03	1·47·50	1·47·24

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·832	15·623	15·623	14·592	13·221	12·256	11·845	10·744	9·990	10·961	12·533	13·355	13·013
5·0	15·142	15·691	15·553	14·592	13·219					11·088	12·601	13·287	12·944
10·0	15·211	15·691	15·280	14·557	13·219					11·157	12·601	13·219	12·944
15·0	15·280	15·760	15·280	14·523	12·876					11·225	12·533	13·150	13·081
20·0	15·280	15·760	15·211	14·420	12·876					11·363	12·772	13·150	13·081
25·0	15·280	15·760	15·074	14·249	12·876					11·397	12·978	13·150	13·150
30·0	15·280	15·828	15·074	14·145	12·876	11·845	11·501	10·383	10·196	11·569	12·978	13·150	13·150
35·0	15·280	15·828	14·936	14·076	12·876					11·776	13·150	13·150	13·081
40·0	15·416	15·794	14·936	13·974	12·601					11·845	13·150	13·219	13·081
45·0	15·485	15·691	14·798	13·906	12·523					12·119	13·081	13·219	13·150
50·0	15·553	15·691	14·694	13·906	12·360					12·290	13·150	13·219	13·150
55·0	15·623	15·691	14·660	13·630	12·188					12·533	13·150	13·150	13·150

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·100	19·380	19·660	20·100	20·050	19·850	19·850	19·700	19·400	18·870	18·100	18·070	17·910
7·0	19·125	19·445	19·640	20·100	20·050					18·835	18·070	18·070	17·900
12·0	19·200	19·430	19·650	20·125	19·950					18·770	18·100	18·000	17·900
17·0	19·200	19·500	19·660	20·150	19·900					18·680	18·140	18·000	17·900
22·0	19·200	19·510	19·720	20·150	19·900					18·565	18·050	18·000	17·900
27·0	19·210	19·600	19·750	20·200	19·900					18·400	18·065	18·010	17·860
32·0	19·240	19·610	19·750	20·200	19·900	19·950	19·900	19·600	19·100	18·370	18·040	18·010	17·910
37·0	19·265	19·630	19·550	20·250	19·900					18·300	18·030	18·000	17·840
42·0	19·250	19·650	19·950	20·250	19·900					18·240	18·040	17·920	17·810
47·0	19·260	19·660	19·960	20·250	19·850					18·200	18·070	17·900	17·770
52·0	19·260	19·660	20·050	20·250	19·800					18·100	18·100	17·880	17·810
57·0	19·340	19·660	20·050	20·050	19·800					18·100	18·070	17·900	17·890
Therm.	80°8	80°8	81°7	82°7	84°0	84°5	84°8	84°0	82°5	82°5	82°9	82°9	82°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·24·50	1·24·50	0·18·20	-1·14·25	-1·48·30					-3·27·50	-3·23·50	-3·36·70	-4·31·50
8·0	1·24·50	1·24·50	-0·01·30	-1·14·25	-1·48·30					-3·27·50	-3·23·50	-3·36·70	-4·31·50
13·0	1·24·50	1·15·60	-0·01·30	-1·23·50	-1·36·75					-3·27·50	-3·29·00	-3·46·60	-4·31·50
18·0	1·24·50	1·09·10	-0·13·50	-1·23·50	-1·36·75					-3·27·50	-3·29·00	-4·08·30	-4·31·50
23·0	1·24·50	1·09·10	-0·20·60	-1·23·50	-1·36·75					-3·27·50	-3·17·50	-4·08·30	-4·31·50
28·0	1·24·50	0·43·00	-0·20·60	-1·32·10	-1·36·75	-1·22·30	*-5·03·05	-4·20·00	-4·04·30	-3·27·50	-3·17·50	-4·14·20	-4·31·50
33·0	1·24·50	0·43·00	-0·30·00	-1·32·10	-1·36·75					-3·19·80	-3·16·30	-4·14·20	-4·31·50
38·0	1·24·50	0·32·10	-0·40·30	-1·32·10	-1·36·75					-3·19·80	-3·16·30	-4·14·20	-4·36·50
43·0	1·24·50	0·32·10	-0·49·00	-1·32·10	-1·36·75					-3·19·80	-3·36·70	-4·14·20	-4·36·50
48·0	1·24·50	0·18·20	-1·06·00	-1·48·30	-1·25·00					-3·17·45	-3·36·70	-4·19·60	-4·35·50
53·0	1·24·50	0·18·20	-1·14·25	-1·48·30	-1·25·00					-3·17·45	-3·36·70	-4·19·60	-4·35·50
58·0	1·24·50	0·18·20	-1·14·25	-1·48·30	-1·16·35	-1·38·90	-4·38·00	-4·17·85	-3·27·50	-3·17·45	-3·36·70	-4·31·50	-4·35·50
Therm.	81°7	81°4	81°5	82°3	83°2	83°5	84°0	83°3	82°5	82°3	82°5	82°8	82°7

* Magnet disturbed.

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′56	16′50	15′45	14′35	12′95	12′37	11′33	10′81	11′64	13′42	14′04	13′78
5·0	16·56	16·30	15·40	14·20					11·79	13·42	14·09	13·73
10·0	16·61	16·19	15·35	14·99					11·85	13·42	13·94	13·78
15·0	16·61	16·04	15·25	13·98					12·11	13·57	13·94	13·88
20·0	16·61	16·04	15·25	13·88					12·31	13·73	13·88	13·94
25·0	16·61	16·04	15·19	13·68					12·37	13·94	13·88	13·94
30·0	16·56	15·92	15·04	13·62	12·90	11·85	10·81	10·91	12·52	13·88	13·94	13·88
35·0	16·56	15·66	14·99	13·42					12·63	13·99	13·94	13·94
40·0	16·56	15·66	14·88	13·42					12·73	13·94	13·94	13·94
45·0	16·56	15·56	14·73	13·42					12·90	13·94	13·94	13·94
50·0	16·56	15·56	14·67	13·31					13·10	13·99	13·88	13·94
55·0	16·56	15·56	14·47	13·16					13·31	14·09	13·63	13·88

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	29·200	29·400	29·790	29·720	29·680	29·850	29·710	29·600	28·900	27·830	27·700	27·620
7·0	29·200	29·400	29·800	29·720					28·920	27·800	27·700	27·500
12·0	29·240	29·400	29·800	29·630					28·740	27·940	27·670	27·500
17·0	29·300	29·400	29·810	29·600					28·680	27·800	27·680	27·520
22·0	29·310	29·400	29·820	29·600					28·590	27·800	27·690	27·500
27·0	29·350	29·440	29·850	29·600					28·500	27·730	27·670	27·500
32·0	29·380	29·490	29·870	29·540	29·750	29·850	29·590	29·290	28·340	27·720	27·640	27·480
37·0	29·390	29·520	29·900	29·520					28·210	27·690	27·600	27·450
42·0	29·420	29·610	29·900	29·540					28·120	27·720	27·600	27·430
47·0	29·420	29·670	29·920	29·590					28·000	27·750	27·600	27·420
52·0	29·430	29·700	29·900	29·520					27·900	27·700	27·590	27·450
57·0	29·410	29·740	29·800	29·500					27·870	27·730	27·550	27·500
Therm.	78°0	78°4	79°8	80°3	81°2	82°0	80°9	79°4	79°3	79°8	80°0	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′25	1°47′25	1°47′37	1°47′25	1°46′90	1°47′64	1°47′11	1°46′93	1°47′17	1°47′56	1°47′58	1°47′37
8·0	1·47·17	1·47·32	1·47·37	1·47·29					1·47·31	1·47·24	1·47·51	1·47·30
13·0	1·47·17	1·47·05	1·47·48	1·47·44					1·47·24	1·47·24	1·47·44	1·47·30
18·0	1·47·24	1·47·19	1·47·44	1·47·10					1·47·17	1·47·17	1·47·37	1·47·44
23·0	1·47·24	1·47·12	1·47·34	1·47·24					1·47·30	1·47·27	1·47·37	1·47·44
28·0	1·47·24	1·47·29	1·47·17	1·47·24					1·47·34	1·47·34	1·47·51	1·47·51
33·0	1·47·31	1·47·41	1·47·07	1·47·24	1·47·35	1·47·49	1·46·98	1·47·14	1·47·36	1·47·34	1·47·51	1·47·51
38·0	1·47·31	1·47·48	1·47·00	1·47·24					1·47·57	1·47·51	1·47·37	1·47·44
43·0	1·47·27	1·47·57	1·47·04	1·46·96					1·47·50	1·47·51	1·47·54	1·47·44
48·0	1·47·17	1·47·43	1·47·12	1·47·03					1·47·67	1·47·44	1·47·58	1·47·51
53·0	1·47·17	1·47·32	1·47·12	1·47·00					1·47·65	1·47·51	1·47·58	1·47·51
58·0	1·47·17	1·47·44	1·47·27	1·46·83					1·47·70	1·47·37	1·47·51	1·47·51

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'828	16'309	15'897	14'660	14'249	12'533	11'225	11'845	11'707	12'463	13'287	13'337	13'837
5·0	15·828	16·309	15·897	14·592	14·008					12·533	13·287	13·700	13·768
10·0	15·828	16·102	15·828	14·592	13·906					12·533	13·355	13·768	13·562
15·0	15·966	16·240	15·897	14·249	13·906					12·601	13·355	13·700	13·562
20·0	16·084	16·378	15·760	14·249	13·906					12·738	13·389	13·837	13·493
25·0	16·102	16·309	15·760	14·249	13·562					12·840	13·425	14·042	13·493
30·0	16·102	16·309	15·623	14·249	13·321	11·501	11·157	11·639	11·707	12·806	13·425	14·076	13·355
35·0	16·309	16·240	15·348	14·249	13·219					12·876	13·459	14·179	13·219
40·0	16·136	16·102	15·211	14·249	13·219					12·910	13·562	14·179	13·013
45·0	16·136	16·034	14·970	14·249	13·219					13·013	13·562	14·179	12·978
50·0	16·068	15·966	14·970	14·213	13·081					13·081	13·630	14·042	12·806
55·0	16·102	15·966	14·936	14·249	12·876					13·184	13·768	13·974	12·669

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·275	18·225	18·550	18·600	18·850	19·050	18·950	18·425	18·600	19·600	18·450	18·320	18·210
7·0	18·150	18·220	18·550	18·725	18·900					18·600	18·475	18·250	18·210
12·0	18·175	18·220	18·610	18·725	18·900					18·590	18·490	18·300	18·200
17·0	18·160	18·280	18·560	18·750	18·900					18·560	18·560	18·225	18·200
22·0	18·100	18·350	18·510	18·809	18·900					18·550	18·460	18·005	18·080
27·0	18·100	18·380	18·455	18·850	18·960					18·550	18·450	17·950	18·150
32·0	18·175	18·400	18·470	18·850	19·950	19·100	18·550	18·450	18·620	18·540	18·467	17·950	18·160
37·0	18·200	18·440	18·530	18·850	19·000					18·530	18·410	17·940	18·240
42·0	18·150	18·490	18·600	18·850	19·000					18·530	18·410	18·010	18·200
47·0	18·150	18·510	18·600	18·875	19·000					18·510	18·350	18·060	18·250
52·0	18·160	18·550	18·625	18·875	19·050					18·460	18·350	18·110	18·300
57·0	18·240	18·560	18·610	18·850	19·050					18·450	18·300	18·120	18·300
Therm.	81°0	81°0	81°9	82°0	83°0	82°8	83·0	82°4	82°4	82°3	81°7	81°6	81°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	-2·20·60	-2·28·70	-3·30·70	-4·13·80	-4·10·60					-3·23·75	-3·08·80	-3·11·90	-3·34·60
8·0	-2·20·60	-2·43·50	-3·30·70	-4·18·80	-4·10·80					-3·23·75	-3·04·80	-3·15·30	-3·47·90
13·0	-2·20·60	-2·43·50	-3·30·70	-4·23·80	-4·29·00					-3·19·10	-3·04·80	-3·15·30	-3·47·90
18·0	-2·20·60	-2·43·50	-3·30·70	-4·23·80	-4·29·00					-3·19·10	-3·04·80	-3·15·30	-3·47·90
23·0	-2·20·60	-2·49·00	-3·27·30	-4·23·80	-4·29·00					-3·19·10	-3·04·80	-3·15·30	-3·47·90
28·0	-2·20·60	-2·49·00	-3·33·50	-4·17·30	-4·29·00	-5·04·75	-4·27·90	-4·31·90	-3·47·60	-3·19·10	-3·04·80	-3·15·30	-4·06·90
33·0	-2·20·60	-3·09·40	-3·44·70	-4·27·20	-4·29·00					-3·19·10	-3·09·50	-3·15·30	-4·06·90
38·0	-2·27·10	-3·09·40	-4·05·00	-4·27·20	-4·29·00					-3·19·10	-3·06·90	-3·22·10	-4·19·40
43·0	-2·27·10	-3·21·00	-4·05·00	-4·27·20	-4·36·30					-3·16·30	-3·06·90	-3·33·80	-4·19·40
48·0	-2·32·50	-3·21·00	-4·05·00	-4·27·30	-4·36·30					-3·16·30	-3·06·90	-3·33·80	-4·19·40
53·0	-2·32·50	-3·21·00	-4·05·00	-4·27·30	-4·36·30					-3·10·40	-3·06·90	-3·43·70	-4·19·40
58·0	-2·28·70	-3·30·70	-4·13·00	-4·10·60	-4·36·30	-4·36·85	-4·14·20	-4·31·90	-3·23·75	-3·08·80	-3·11·90	-3·34·60	-4·19·40
Therm.	82°5	82°0	82°0	82°0	82°6	82°6	83·0	82°5	82°5	82°4	82°2	81°8	81°8

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M.S.												
0·0	17′08	16′56	15′45	14′98	13′42	11′85	12′26	12′57	13′16	13′88	14′47	14′62
5·0	16·92	16·56	15·40	14·78					13·21	13·94	14·47	14·47
10·0	16·87	16·56	15·25	14·57					13·36	13·94	14·52	14·35
15·0	17·08	16·56	15·25	14·47					13·42	13·99	14·57	14·30
20·0	17·08	16·50	15·25	14·35					13·42	14·09	14·73	14 25
25·0	17·13	16·24	15·25	14·20					13·47	14·20	14·88	14·20
30·0	17·13	16·04	15 09	14·14		11·85	12·47	12·63	13·52	14·20	14·99	14·20
35·0	17·13	16·04	14·99	13·99					13·68	14·25	14·99	13·99
40·0	17·02	15·92	14·93	13·94					13·73	14·35	14·99	13·94
45·0	16·76	15·71	14·99	13·94					13·78	14·40	14·99	13·88
50·0	16·82.	15·56	14·99	13·83					13·83	14·40	14·88	13·68
55·0	16·66	15·51	14·99	13·68					13·83	14·47	14·88	13·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M.S.												
2·0	27·640	28·030	28·100	28·340	28·780	28·450	27·950	28·070	28·140	28·020	27·690	27·450
7·0	27·600	28·090	28·130	28·420					28·100	28·030	27·660	27·490
12·0	27·560	28·100	28·150	28·490					28·100	28·000	27·640	27·490
17·0	27·630	28·040	28·170	28·550					28·100	28·000	27·730	27·480
22·0	27·650	27·980	28·200	28·600					28·050	27·970	27·810	27·460
27·0	27·700	28·000	28·210	28·650					28·020	27·920	27·760	27·450
32·0	27·740	28·000	28·240	28·700	28·600	28·200	27·950	28·130	28·000	27·900	27·670	27·480
37·0	27·800	28·000	28·290	28·750					28·000	27·890	27·700	27·490
42·0	27·830	28·000	28·300	28·780					27·960	27·840	27·740	27·560
47·0	27·900	28·035	28·290	28·800					27·980	27·790	27·650	27·520
52·0	27·910	28·020	28·300	28·800					27·990	27·800	27·540	27·540
57·0	27·980	28·090	28·300	28·745					28·000	27·730	27·420	27·550
Therm.	79°4	79°9	80°0	80°2	79°8	81°0	80°4	80°4	80°0	79°8	79°7	79°8

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M.S.												
3·0	1°47′50	1°47′24	1°46′72	1°47′17	1°46′75	1°47′02	1°47′21	1°46′64	1°46′96	1°46′93	1°47′19	1°46′91
8·0	1·47·45	1·47·24	1·46·82	1·46·93					1·47·03	1·46·79	1·46·91	1·46·98
13·0	1·47·44	1·47·17	1·46·94	1·46·83					1·47·03	1·46·71	1·46·98	1·46·77
18·0	1·47·58	1·47·38	1·46·74	1·46·98					1·46·96	1·46·71	1·46·91	1·46·91
23·0	1·47·57	1·47·24	1·46·88	1·46·98					1.47·10	1·46·74	1·47·05	1·46·99
28·0	1·47·50	1·47·24	1·47·03	1·46·03					1·47·20	1·46·78	1·47·11	1·47·13
33·0	1·47·50	1·47·10	1·47·08	1·46·53	1·47·29	1·46·95	1·46·85	1·46·70	1·47·03	1·46·78	1·47·15	1·47·14
38·0	1·45·29	1·46·98	1·47·17	1·46·43					1·47·10	1·46·96	1·47·10	1·47·19
43·0	1·47·15	1·46·84	1·47·17	1·46·57					1·47·13	1·46·91	1·47·10	1·47·08
48·0	1·47·22	1·46·74	1·47·13	1·46·86					1·47·08	1·46·91	1·47·10	1·47·20
53·0	1·47·31	1·46·74	1·47·17	1·46·96					1·47·01	1·46·98	1·47·96	1·47·08
58·0	1·47·31	1·46·88	1·47·17	1·47·10					1·47·11	1·47·12	1.47·04	1·47·31

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	15′966	15′760	14′762	13′219	12′188	11′673	12′050	12′910	13′940	14′145	13′906	13′355
5·0	15·416	15·966	15·760	14·420	12·876					14·076	14·111	13·837	13·493
10·0	15·485	15·897	15·553	14·249	12·533					14·042	14·111	13·768	13·700
15·0	15·091	15·966	15·553	14·249	12·533					14·076	14·249	14·837	13·768
20·0	15·623	15·966	15·485	14·249	12·876					14·111	14·283	14·837	13·768
25·0	15·691	16·068	15·485	14·249	12·876					14·111	14·283	13·700	13·768
30·0	15·828	15·966	15·416	14·249	13·219	11·845	11·501	12·567	13·493	14·111	14·249	13·765	13·768
35·0	15·897	15·966	15·348	14·249	13·219					14·111	14·179	13·630	13·630
40·0	16·034	15·966	15·416	14·042	12·876					14·111	14·249	13·562	13·425
45·0	15·966	15·897	15·216	13·630	12·468					14·042	14·179	13·425	13·425
50·0	15·966	15·897	15·211	13·321	11·931					14·111	14·111	13·355	13·355
55·0	15·966	15·760	15·108	13·219	12·188					14·145	13·906	13·355	13·287

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·735	18·850	18·720	18·750	18·750	18·600	18·600	18·480	18·285	17·840	17·840	17·790	18·010
7·0	18·750	18·845	18·660	18·750	18·800					17·800	17·845	17·800	18·020
12·0	18·825	18·840	18·605	18·800	18·650					17·720	17·840	17·800	18·060
17·0	18·750	18·880	18·660	18·800	18·650					17·725	17·770	17·815	18·060
22·0	18·760	18·870	18·700	18·950	18·675					17·760	17·800	17·840	18·060
27·0	18·770	18·910	18·700	18·950	18·650					17·775	17·800	17·850	18·060
32·0	18·820	18·900	18·690	18·950	18·650	18·700	18·600	18·330	18·060	17·840	17·770	17·875	18·090
37·0	18·840	18·940	18·660	18·950	18·600					17·850	17·750	17·960	18·095
42·0	18·825	18·940	18·700	18·950	18·650					17·840	17·740	17·910	18·085
47·0	18·800	18·900	18·650	18·950	18·650					17·857	17·740	17·940	18·050
52·0	18·810	18·880	18·650	18·875	18·600					17·810	17·750	17·950	18·100
57·0	18·830	18·750	18·650	18·800	18·600					17·770	17·750	18·010	18·120
Therm.	80°3	80°8	81°7	82°6	83°7	85°1	86°0	85°0	85°2	85°0	84°9	83°9	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	−1·25·70	−1·36·30	−2·36·80	−4·11·30	−4·24·35					−1·48·60	−1·40·30	−2·01·70	−2·24·80
8·0	−1·25·70	−1·47·50	−3·04·70	−4·11·30	−4·24·30					−2·04·55	−1·40·30	−2·01·70	−2·02·80
13·0	−1·30·00	−1·47·50	−3·10·50	−4·11·30	−4·24·30					−2·04·55	−1·45·05	−2·01·70	−2·12·50
18·0	−1·30·00	−2·04·20	−3·18·60	−4·30·10	−4·24·30					−2·04·55	−1·39·00	−2·10·20	−2·12·50
23·0	−1·30·00	−2·04·20	−3·18·60	−4·30·10	−4·24·30					−2·09·45	−1·39·00	−2·10·20	−2·12·50
28·0	−1·30·00	−2·06·60	−3·18·60	−4·30·10	−4·24·30					−2·09·45	−1·40·90	−2·10·20	−2·12·50
33·0	−1·30·00	−2·06·60	−3·25·20	−4·30·10	−4·24·30	−4·30·00		−2·39·60	−2·22·25	−2·09·45	−1·49·00	−2·18·90	−2·19·20
38·0	−1·30·00	−2·21·60	−3·29·30	−4·30·10	−4·24·30					−2·01·25	−2·01·70	−2·18·90	−2·19·20
43·0	−1·30·00	−2·29·10	−3·29·30	−4·30·10	−4·24·30					−2·01·25	−2·01·70	−2·24·80	−2·29·90
48·0	−1·30·00	−2·29·10	−3·29·30	−4·37·25	−4·31·40					−2·01·25	−2·01·70	−2·24·80	−2·29·90
53·0	−1·30·00	−2·33·90	−3·44·10	−4·37·25	−4·31·40					−1·40·30	−2·01·70	−2·24·80	−2·29·90
58·0	−1·36·30	−2·36·80	−4·11·30	−4·24·35	−4·30·00	−4·06·75	−3·06·95	−2·35·50	−2·06·10	−1·40·30	−2·01·70	−2·24·80	−2·35·80
Therm.	81°5	81°3	81°7	82°6	83°0	83°7	84°0	84°4	84°8	84°7	84°6	84°4	83°4

TERM HOUR OBSERVATIONS ON THE 8TH AND 9TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′02	16′61	15′82	14′35	13′42	12′37	13′31	13′94	14′99	14′99	14′47	14′40
5·0	16·87	16·61	15·66	14·40					14·99	14·99	14·47	14·47
10·0	16·92	16·56	15·51	14·20					14·99	14·99	14·47	14·47
15·0	16·87	16·50	15·40	13·99					14·99	14·99	14·47	14·47
20·0	16·87	16·50	15·19	13·94					14·99	14·99	14·47	14·47
25·0	16·87	16·45	14·99	13·94					14·99	14·99	14·47	14·47
30·0	16·87	16·30	14·99	13·94	12·90	12·63	13·68	14·20	14·99	14·99	14·47	14·47
35·0	16·87	16·24	14·78	13·88					14·98	14·99	14·47	14·40
40·0	16·82	16·40	14·57	13·73					14·99	14·99	14·47	14·35
45·0	16·82	16·24	14·47	13·68					14·99	14·99	14·35	14·25
50·0	16·76	16·04	14·47	13·52					14·99	14·73	14·14	14·09
55·0	16·71	15·97	14·25	13·47					14·99	14·52	14·25	14·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	27·960	27·680	27·640	27·780	27·600	27·650	27·540	27·370	26·930	27·020	27·150	27·350
7·0	27·900	27·620	27·730	27·750					26·900	27·050	27·180	27·390
12·0	27·950	27·540	27·730	27·720					26·800	27·020	27·190	27·380
17·0	27·970	27·600	27·800	27·650					26·800	27·000	27·190	27·450
22·0	27·960	27·590	27·820	27·640					26·890	26·990	27·200	27·500
27·0	27·970	27·550	27·830	27·610					26·940	26·940	27·200	27·500
32·0	27·990	27·580	27·840	27·600	27·700	27·660	27·370	27·200	27·000	26·900	27·200	27·500
37·0	27·980	27·570	27·830	27·530					27·030	26·900	27·260	27·530
42·0	27·970	27·510	27·800	27·550					27·000	26·920	27·290	27·540
47·0	27·900	27·480	27·800	27·590					27·000	27·000	27·320	27·600
52·0	27·800	27·560	27·790	27·610					27·020	27·080	27·340	27·600
57·0	27·700	27·600	27·870	27·620					27·000	27·120	27·340	27·620
Therm.	78°2	79°3	79°9	80°4	81°7	82°8	82°8	83°0	82°2	82°2	81°8	80°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1·47′44	1·47′24	1·47′10	1·46′85	1·46′54	1·47′04	1·46′69	1·46′69	1·46′86	1·47′06	1·46′82	1·46′70
8·0	1·47·44	1·47·24	1·46·91	1·46·85					1·46·99	1·47·03	1·46·90	1·46·84
13·0	1·47·37	1·47·18	1·46·87	1·46·46					1·46·96	1·47·08	1·46·83	1·47·05
18·0	1·47·44	1·47·18	1·47·02	1·46·75					1·46·99	1·47·16	1·46·90	1·46·97
23·0	1·47·44	1·47·11	1·47·16	1·47·09					1·47·03	1·47·20	1·47·04	1·46·97
28·0	1·47·54	1·47·11	1·47·16	1·47·09					1·47·03	1·47·20	1·47·05	1·46·97
33·0	1·47·44	1·47·04	1·47·31	1·47·53	1·46·77	1·46·93	1·46·92	1·46·99	1·47·03	1·47·16	1·47·11	1·46·97
38·0	1·47·44	1·46·97	1·47·45	1·47·53					1·47·03	1·47·09	1·46·98	1·46·93
43·0	1·47·44	1·47·04	1·47·25	1·47·23					1·47·03	1·47·16	1·46·91	1·46·92
48·0	1·47·37	1·46·84	1·46·84	1·46·82					1·46·96	1·47·09	1·46·92	1·46·92
53·0	1·47·37	1·46·84	1·46·67	1·46·54					1·47·03	1·47·03	1·46·85	1·47·18
58·0	1·47·24	1·46·87	1·46·71	1·46·54					1·47·06	1·46·82	1·46·85	1·47·21

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′245	15′725	15′211	13′287	11′947	10′985	11′157	11′293	11′501	12′394	12′876	12′944	12′876
5·0	15·230	15·760	15·074	13·219	11·845					12·463	12·876	13·013	12·876
10·0	15·348	15·760	14·936	13·219	11·845					12·533	12·944	13·013	12·876
15·0	15·348	15·760	14·798	13·115	11·845					12·601	12·944	12·876	12·944
20·0	15·485	15·760	14·660	13·081	11·501					12·772	12·978	12·876	12·944
25·0	15·485	15·760	14·523	13·150	11·536					12·772	12·944	12·910	12·876
30·0	15·553	15·691	14·076	12·876	11·259	10·882	11·501	11·431	11·981	12·772	13·047	12·910	12·876
35·0	15·760	15·623	14·076	12·533	11·225					12·806	13·150	12·876	12·876
40·0	15·691	15·623	13·974	12·533	11·157					12·806	13·081	12·944	12·876
45·0	15·725	15·348	13·906	12·533	10·814					12·806	13·081	12·944	12·806
50·0	15·725	15·348	13·734	12·360	10·985					12·806	13·081	12·944	12·876
55·0	15·725	15·245	13·321	12·170	10·951					12·876	13·081	12·944	12·944

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·770	18·650	18·900	19·250	19·450	19·550	19·400	19·145	18·835	18·555	18·380	18·340	18·450
7·0	18·710	18·650	19·010	19·300	19·450					18·550	18·312	18·340	18·440
12·0	18·725	18·650	19·050	19·347	19·450					18·520	18·320	18·345	18·430
17·0	18·720	18·680	19·050	19·400	19·450					18·500	18·340	18·350	18·380
22·0	18·700	18·710	19·090	19·400	19·500					18·495	18·350	18·360	18·360
27·0	18·680	18·730	19·150	19·400	19·550					18·500	18·340	18·350	18·360
32·0	18·680	18·755	19·150	19·400	19·550	19·500	19·260	19·045	18·600	18·500	18·320	18·410	18·370
37·0	18·625	18·840	19·200	19·400	19·550					18·490	18·340	18·450	18·380
42·0	18·630	18·880	19·200	19·425	19·550					18·400	18·320	18·430	18·400
47·0	18·655	18·900	19·250	19·400	19·550					18·420	18·350	18·430	18·430
52·0	18·650	18·940	19·250	19·400	19·650					18·390	18·350	18·480	18·420
57·0	18·650	18·950	19·250	19·350	19·600					18·365	18·350	18·460	18·400
Therm.	81°4	81°4	81°8	82°8	83°0	84°1	85°0	85°0	85°0	84°2	83°6	83°0	82°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	-1·31·30	-2·11·20	-3·21·60	-4·42·35	-5·12·70					-2·48·90	-3·05·75	-3·09·40	-3·03·50
8·0	-1·31·30	-2·11·20	-3·38·40	-4·42·35	-5·12·70					-2·48·90	-2·49·55	-3·09·40	-3·03·50
13·0	-1·31·30	-2·11·20	-3·47·00	-4·42·35	-5·12·70					-2·48·90	-2·46·00	-3·09·40	-3·11·20
18·0	-1·31·30	-2·26·20	-4·04·80	-4·42·35	-5·05·65					-2·48·90	-2·48·45	-3·09·40	-3·11·20
23·0	-1·37·20	-2·26·20	-4·14·80	-4·42·35	-5·05·65					-3·02·40	-3·01·60	-3·03·50	-3·11·20
28·0	-1·41·20	-2·36·00	-4·27·80	-4·42·35	-5·00·60	-4·01·85	-3·38·85	-3·10·60	-3·07·65	-3·05·15	-3·01·60	-3·03·50	-3·11·20
33·0	-1·41·20	-2·36·00	-4·27·80	-5·02·60	-5·00·60					-3·05·15	-2·47·85	-3·03·50	-3·00·20
38·0	-1·41·20	-2·46·20	-4·42·30	-5·02·60	-5·00·60					-3·05·15	-2·47·85	-3·03·50	-3·00·20
43·0	-1·48·90	-2·46·20	-4·42·30	-5·02·60	-4·42·60					-3·05·15	-2·47·85	-3·03·50	-3·00·20
48·0	-1·48·90	-3·07·10	-4·42·30	-5·02·60	-4·42·60					-3·02·75	-2·47·85	-3·03·50	-3·10·50
53·0	-2·04·70	-3·13·90	-4·42·30	-5·12·70	-4·42·60					-3·09·75	-3·05·90	-3·03·50	-3·10·50
58·0	-2·11·20	-3·21·60	-4·42·35	-5·12·70	-4·24·95	-3·38·85	-3·17·80	-3·14·60	-3·02·65	-3·05·70	-3·09·40	-3·03·50	-3·10·50
Therm.	82°5	81°9	82°0	82°5	83°0	84°0	84°3	84°3	85°0	84°2	83°8	82°5	82°8

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′56	16′09	14′25	13′05	11′90	12′37	12′37	12′63	13′42	13′42	13′94	13′94
5·0	16·61	16·09	14·14	12·90					13·47	13·42	13·88	13·94
10·0	16·56	16·04	14·09	12·90					13·52	13·47	13·94	13·94
15·0	16·61	15·82	13·94	12·83					13·68	13·68	13·94	13·94
20·0	16·56	15·56	13·94	12·63					13·83	13·83	13·94	13·94
25·0	16·56	15·51	13·94	12·47					13·94	13·88	13·94	13·94
30·0	16·56	15·30	13·88	12·37	11·85	12·37	12·37	12·90	13·94	13·83	13·94	13·94
35·0	16·56	14·99	13·78	12·37					13·94	13·88	13·94	13·94
40·0	16·56	14·83	13·62	12·26					13·88	13·94	13·88	13·94
45·0	16·50	14·67	13·42	12·16					13·94	13·94	13·94	13·94
50·0	16·35	14·47	13·42	11·95					13·83	13·94	13·94	13·94
55·0	16·24	14·40	13·36	11·85					13·78	13·94	13·94	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	27·920	28·100	28·370	28·570	28·740	28·500	28·210	27·970	27·700	27·750	27·700	27·700
7·0	27·930	28·100	28·400	28·600					27·700	27·800	27·700	27·720
12·0	27·940	28·100	28·430	28·600					27·690	27·800	27·710	27·710
17·0	27·990	28·100	28·47	28·600					27·640	27·800	27·700	27·690
22·0	28·000	28·130	28·500	28·590					27·590	27·750	27·700	27·680
27·0	28·020	28·150	28·500	28·600					27·600	27·730	27·700	27·650
32·0	28·060	28·200	28·490	28·600	28·550	28·500	28·200	27·930	27·600	27·740	27·700	27·680
37·0	28·090	28·240	28·500	28·600					27·600	27·730	27·700	27·700
42·0	28·100	28·290	28·500	28·620					27·580	27·720	27·730	27·700
47·0	28·120	28·300	28·500	28·630					27·550	27·700	27·720	27·700
52·0	28·120	28·300	28·480	28·740					27·610	27·700	27·720	27·690
57·0	28·110	28·320	28·500	28·800					27·680	27·710	27·750	27·680
Therm.	79°0	79°3	79°9	80°4	81°2	82°0	82°0	82°4	81°2	81°0	80°0	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′20	1°46′98	1°47′21	1°46′72	1°47′06	1°46′94	1°47′08	1°47′00	1°47′03	1°47′09	1°47′30	1°47′23
8·0	1·47·24	1·46·84	1·47·28	1·46·62					1·47·10	1·47·09	1·47·37	1·47·23
13·0	1·47·24	1·46·99	1·47·28	1·46·77					1·47·08	1·47·16	1·47·37	1·47·23
18·0	1·47·24	1·47·01	1·47·33	1·47·05					1·47·10	1·47·16	1·47·23	1·47·30
23·0	1·47·24	1·47·15	1·47·30	1·46·86					1·47·13	1·47·19	1·47·23	1·47·30
28·0	1·47·24	1·47·30	1·47·51	1·46·89					1·47·13	1·47·16	1·47·27	1·47·23
33·0	1·47·17	1·46·99	1·47·23	1·46·75	1·46·67	1·47·29	1·47·22	1·46·91	1·47·16	1·47·26	1·47·27	1·47·23
38·0	1·47·10	1·46·99	1·46·89	1·46·87					1·47·16	1·47·51	1·47·23	1·47·23
43·0	1·47·25	1·47·04	1·47·03	1·46·80					1·47·16	1·47·44	1·47·30	1·47·23
48·0	1·46·92	1·47·11	1·47·03	1·46·60					1·47·02	1·47·44	1·47·30	1·47·16
53·0	1·46·97	1·47·37	1·47·00	1·46·92					1·47·16	1·47·44	1·47·30	1·47·23
58·0	1·46·91	1·47·10	1·46·81	1·47·03					1·47·09	1·47·44	1·47·30	1·47·30

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	15'828	16'034	15'931	14'936	13'906	12'876	12'583	12'050	12'772	14'249	14'936	14'592	13'837
5·0	15·897	16·068	15·931	14·936	13·562					14·249	14·936	14·592	12·630
10·0	15·897	16·068	15·897	14·936	13·562					14·238	14·901	14·523	13·562
15·0	15·931	16·034	15·760	14·762	13·562					14·592	14·901	14·386	13·562
20·0	15·966	16·034	15·691	14·728	13·389					14·660	14·936	14·386	13·493
25·0	15·966	15·966	15·553	14·592	13·287					14·798	14·936	14·386	13·493
30·0	15·966	15·966	15·553	14·592	13·219	12·583	12·188	12·256	13·425	14·832	14·901	14·249	13·425
35·0	15·966	15·966	15·553	14·592	13·219					14·936	14·901	14·179	13·287
40·0	15·966	15·966	15·485	14·557	13·219					14·936	14·867	14·179	13·219
45·0	16·034	16·034	15·485	14·523	13·047					14·936	14·867	14·111	13·219
50·0	16·034	16·034	15·280	13·974	12·944					14·936	14·798	14·111	13·150
55·0	16·034	15·966	14·936	13·906	12·876					14·936	14·728	13·906	13·081

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	18·865	19·040	19·350	19·930	20·150	20·225	20·250	20·040	19·630	19·350	19·130	18·950	18·800
7·0	18·840	19·050	19·420	19·950	20·200					19·340	19·130	18·940	18·800
12·0	18·875	19·050	19·430	20·000	20·200					19·285	19·420	18·920	18·800
17·0	18·940	19·030	19·440	20·100	20·200					19·290	19·120	18·900	18·780
22·0	19·020	19·060	19·500	20·125	20·200					19·260	19·090	18·880	18·750
27·0	18·920	19·050	19·560	20·100	20·200					19·250	19·070	18·860	18·750
32·0	19·010	19·100	19·620	20·100	20·200	20·300	20·050	19·865	19·440	19·240	19·050	18·850	18·750
37·0	19·000	19·170	19·650	20·100	20·200					19·200	19·020	18·850	18·740
42·0	19·000	19·170	19·720	20·125	20·200					19·170	19·020	18·830	18·720
47·0	19·010	19·160	19·725	20·125	20·170					19·160	19·010	18·820	18·720
52·0	19·000	19·210	19·700	20·150	20·150					19·160	18·980	18·820	18·720
57·0	19·040	19·250	19·800	20·200	20·200					19·150	18·955	18·800	18·720
Therm.	81°0	81°0	80°3	80°0	79°0	81°2	82°5	82°2	82°8	81°7	81°4	81°6	81°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	-2·24·40	-2·44·60	-3·02·70	-3·45·85	-4·32·50					0·16·25	-0·11·15	-0·35·50	-1·12·00
8·0	-2·24·40	-2·44·60	-3·08·00	-3·45·85	-4·32·50					0·16·25	-0·11·60	-0·48·40	-1·12·00
13·0	-2·24·40	-2·44·60	-3·08·00	-4·03·60	-4·32·50					0·16·25	-0·11·60	-0·48·40	-1·12·00
18·0	-2·24·40	-2·44·60	-3·08·00	-4·03·60	-4·32·50					0·16·25	-0·16·25	-0·48·40	-1·16·10
23·0	-2·35·10	-2·44·60	-3·08·00	-4·03·60	-4·32·50					0·12·10	-0·19·25	-0·48·40	-1·16·10
28·0	-2·35·10	-2·44·60	-3·18·10	-4·03·60	-4·32·50	-4·12·20		-0·34·00	-0·05·10	0·12·10	-0·23·00	-0·48·40	-1·16·10
33·0	-2·35·10	-3·02·70	-3·18·10	-4·12·50	-4·32·50					0·12·10	-0·26·50	-1·06·40	-1·16·10
38·0	-2·40·00	-3·02·70	-3·26·20	-4·12·50	-4·32·50					0·06·35	-0·26·50	-1·06·40	-1·23·10
43·0	-2·40·00	-3·02·70	-3·32·06	-4·18·50	-4·32·50					0·06·35	-0·26·50	-1·06·40	-1·23·10
48·0	-2·40·00	-3·02·70	-3·32·06	-4·18·50	-4·22·95					0·02·30	-0·35·50	-1·12·00	-1·23·10
53·0	-2·40·00	-3·02·70	-3·45·85	-4·32·50	-4·22·95					0·02·30	-0·35·50	-1·12·00	-1·23·10
58·0	-2·44·60	-3·02·70	-3·45·85	-4·32·50	-4·22·95	-4·12·20	-1·07·45	-0·23·20	0·11·40	-0·04·90	-0·35·50	-1·12·00	-1·23·10
Therm.	82°0	81°6	81°0	82°5	81°0	81°1	81°8	82°2	82°4	81°7	81°3	81°5	81°5

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′08	16′56	15′77	14′52	13′78	13′42	12′90	13′42	14′99	15′82	15′51	14′52
5·0	17·08	16·56	15·71	14·47					14·99	15·77	15·30	14·47
10·0	17·08	16·56	15·56	14·47					15·04	15·77	15·25	14·47
15·0	17·08	16·56	15·51	14·40					15·19	15·82	15·19	14·47
20·0	16·87	16·50	15·51	14·25					15·25	15·82	15·09	14·40
25·0	16·76	16·35	15·45	14·09					15·45	15·82	14·99	14·35
30·0	16·82	16·35	15·45	13·94	13·42	12·63	13·00	14·04	15·51	15·77	14·99	14·20
35·0	16·82	16·24	15·25	13·94					15·56	15·71	14·99	14·14
40·0	16·82	16·04	15·14	13·88					15·61	15·66	14·88	13·99
45·0	16·76	16·04	14·99	13·83					15·66	15·51	14·83	13·94
50·0	16·66	15·97	14·99	13·83					15·77	15·51	14·78	13·94
55·0	16·61	15·82	14·83	13·83					15·77	14·51	14·73	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	28·000	28·750	29·400	29·520	29·700	29·400	29·360	29·020	28·760	28·320	28·000	27·900
7·0	28·000	28·830	29·400	29·500					28·750	28·300	27·950	27·900
12·0	28·060	28·890	29·400	29·450					28·740	28·290	27·930	27·850
17·0	28·150	28·940	29·400	29·480					28·700	28·250	27·940	27·840
22·0	28·240	28·990	29·400	29·490					28·650	28·220	27·930	27·820
27·0	28·360	29·040	29·400	29·500					28·630	28·180	27·900	27·800
32·0	28·400	29·100	29·410	29·560	29·550	29·600	29·200	29·000	28·610	28·130	27·900	27·800
37·0	28·470	29·120	29·450	29·610					28·590	28·100	27·900	27·790
42·0	28·540	29·230	29·470	29·640					28·510	28·090	27·900	27·770
47·0	28·590	29·310	29·500	29·650					28·470	28·050	27·900	27·750
52·0	28·640	29·340	29·500	29·690					28·410	28·030	27·900	27·760
57·0	28·700	29·400	29·500	29·700					28·360	28·000	27·900	27·770
Therm.	79°0	77°8	77°0	78°0	78°1	79°6	79°2	79°8	78°7	78°4	79°0	79°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°47′37	1°47′27	1°46′84	1°47′11	1°47′09	1°46′89	1°47′26	1°47′18	1°47′16	1°47′56	1°47′37	1°47′18
8·0	1·47·40	1·47·27	1·46·99	1·46·77					1·47·16	1·47·56	1·47·37	1·47·08
13·0	1·47·40	1·47·23	1·47·13	1·47·20					1·47·15	1·47·53	1·47·30	1·46·91
18·0	1·47·37	1·47·10	1·47·10	1·47·34					1·47·37	1·47·39	1·47·30	1·47·06
23·0	1·47·37	1·47·17	1·47·21	1·47·31					1·47·44	1·47·42	1·47·30	1·47·13
28·0	1·47·30	1·47·03	1·47·22	1·47·21					1·47·57	1·47·42	1·47·30	1·47·27
33·0	1·47·15	1·47·03	1·47·37	1·47·28	1·46·89	1·46·68	1·47·18	1·47·20	1·47·61	1·47·53	1·47·26	1·47·35
38·0	1·47·15	1·47·03	1·47·37	1·47·28					1·47·56	1·47·53	1·47·24	1·47·35
43·0	1·47·15	1·47·11	1·47·47	1·47·28					1·47·56	1·47·64	1·47·24	1·47·43
48·0	1·47·22	1·47·11	1·47·59	1·47·26					1·47·42	1·47·64	1·47·18	1·47·43
53·0	1·47·37	1·46·91	1·47·04	1·47·16					1·47·42	1·47·57	1·47·32	1·47·37
58·0	1·47·30	1·46·70	1·46·97	1·47·09					1·47·56	1·47·50	1·47·11	1·47·44

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·966	16·858	16·102	14·936	13·562	12·188	11·157	11·431	12·119	13·150	14·386	14·936	13·906
5·0	16·000	16·653	16·034	14·936	13·562					13·201	14·523	14·867	13·837
10·0	16·240	16·996	15·966	14·936	13·389					13·219	14·592	14·867	13·700
15·0	16·412	16·926	15·897	14·901	13·150					13·355	14·660	14·867	13·680
20·0	16·447	16·926	15·897	14·386	12·876					13·425	14·660	14·798	13·562
25·0	16·549	16·789	15·760	14·249	12·876					13·493	14·660	14·660	13·493
30·0	16·515	16·721	15·794	14·249	12·876	11·707	10·985	11·845	12·394	13·768	14·660	14·557	13·355
35·0	16·447	16·653	15·623	14·249	12·876					14·111	15·074	14·523	13·219
40·0	16·447	16·584	15·623	14·111	12·806					14·179	15·074	14·386	13·219
45·0	16·515	16·447	15·553	13·906	12·533					14·249	15·074	14·317	13·013
50·0	16·789	16·309	15·004	13·562	12·360					14·523	15·074	14·249	13·013
55·0	16·721	16·172	14·936	13·562	12·188					14·386	15·004	14·179	13·013

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·940	19·150	19·650	20·050	20·000	19·750	19·700	19·650	19·300	19·230	18·950	18·900	18·830
7·0	18·940	19·200	19·650	20·050	19·950					19·300	18·950	18·930	18·830
12·0	19·040	19·230	19·740	20·050	19·900					19·250	18·950	18·850	18·820
17·0	19·100	19·270	19·760	19·960	19·900					19·250	18·950	18·850	18·820
22·0	19·110	19·250	19·770	20·000	19·950					19·280	18·940	18·850	18·800
27·0	19·130	19·315	19·770	20·000	19·945					19·215	18·950	18·800	18·790
32·0	19·100	19·350	19·750	19·950	19·900	19·750	19·600	19·530	19·260	19·075	18·950	18·830	18·800
37·0	19·080	19·420	19·850	20·000	19·900					19·000	18 920	18·840	18·750
42·0	19·060	19·450	19·900	20·000	19·950					19·000	18·930	18·840	18·750
47·0	19·050	19·500	19·945	20·000	19·950					19·000	18·920	18·840	18·590
52·0	19 080	19·540	19·945	19·950	19·900					19·000	18·900	18·820	18·680
57·0	19·140	19·640	20·050	19·950	19·900					19·000	18·900	18·630	18·715
Therm.	81°6	81°8	82°0	83°0	84°0	85°0	84°9	84°4	85°0	85°0	85°0	84°1	83°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·11·10	0·06·40	-1·27·40	-2·45·40	-3·11·90					-1·19·10	-1·05·30	-1·04·80	-1·41·50
8·0	0·11·10	-0·03·70	-1·27·40	-2·45·40	-3·11·90					-1·38·95	-1·05·30	-1·13·10	-1·41·50
13·0	0·18·50	-0·03·70	-1·39·00	-2·45·40	-3·20·35					-1·24·50	-1·05·30	1·13·10	-1·34·70
18·0	0·12·80	-0·19·00	-1·39·00	-2·45·40	-3·20·35					-1·24·60	-1·02·00	-1·13·10	-1·34·70
23·0	0·12·80	-0·19·00	-1·49·50	-3·07·55	-3·20·35					-1·18·19	-1·02·00	-1·13·10	-1·08·60
28·0	0·12·80	-0·32·90	-1·49·50	-3·07·55	-3·20·35	-4·04·05	-3·35·65	-2·43·75	-1·49·00	-1·14·60	-1·02·00	-1·13·10	-1·80·60
33·0	0·12·80	-0·32·90	-2·08·40	-3·07·55	-3·20·35					-1·06·00	-0·34·50	-1·13·10	-1·08·60
38·0	0·12·80	-0·48·50	-2·26·60	-3·07·55	-3·37·65					-1·05·15	-0·44·75	-1·22·90	-1·08·60
43·0	0·06·40	-0·48·50	-2·26·60	-3·07·55	-3·37·65					-1·09·40	-0·44·75	-1·22·90	-1·08·60
48·0	0·06·40	-1·12·00	-2·26·60	-3·07·55	-3·47·60					-1·09·40	-0·44·75	-1·22·90	-1·08·60
53·0	0·06·40	-1·17·10	-2·45·30	-3·11·90	-3·47·60					-1·12·10	-0·44·75	-1·34·10	-1·06·10
58·0	0·06·40	-1·27·40	-2·45·40	-3·11·90	-3·04·05	-4·00·05	-3·10·70	-2·19·75	-1·32·70	-1·12·10	-1·04·80	-1·41·50	-1·06·10
Therm.	82°3	81°6	82°0	82°6	83°0	84°0	84°0	84°0	84°6	84°7	84°8	84°4	83°8

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′39	16′87	16′04	14′40	12′95	11′85	12′37	13′00	13′94	15′51	15′66	14′88
5·0	17·53	16·82	15·97	14·35					13·94	15·51	15·61	14·73
10·0	17·60	16·82	15·71	14·20					14·09	15·51	15·51	14·52
15·0	17·60	16·87	15·51	14·14					14·20	15·51	15·51	14·47
20·0	17·60	16·76	15·40	13·99					14·35	15·56	15·51	14·47
25·0	17·53	16·66	15·25	13·94					14·47	15·61	15·51	14·25
30·0	17·48	16·61	15·19	13·83	12·37	11·85	12·78	13·42	14·78	15·66	15·40	13·99
35·0	17·39	16·56	14·99	13·78					14·99	15·77	15·25	13·94
40·0	17·34	16·35	14·93	13·68					15·09	15·82	15·25	13·94
45·0	17·23	16·30	14·83	13·47					15·19	15·82	15·04	13·88
50·0	17·08	16·19	14·67	13·36					15·30	15·82	14·99	13·78
55·0	17·02	16·04	14·47	13·21					15·45	15·71	14·93	13·68

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	28·100	28·400	28·700	28·500	28·400	28·350	28·400	27·900	27·850	27·600	27·570	27·550
7·0	28·100	28·450	28·720	28·500					27·900	27·600	27·580	27·560
12·0	28·100	28·500	28·780	28·500					27·870	27·600	27·520	27·550
17·0	28·130	28·500	28·800	28·520					27·850	27·600	27·500	27·550
22·0	28·090	28·480	28·750	28·500					27·790	27·600	27·490	27·560
27·0	28·120	28·420	28·680	28·500					27·740	27·600	27·480	27·600
32·0	28·150	28·400	28·600	28·530	28·550	28·475	28·200	27·850	27·680	27·600	27·500	27·660
37·0	28·160	28·430	28·590	28·550					27·620	27·600	27·500	27·640
42·0	28·200	28·520	28·580	28·560					27·600	27·580	27·500	27·650
47·0	28·230	28·580	28·560	28·570					27·600	27·560	27·520	27·670
52·0	28·270	28·630	88·550	28·560					27·650	27·550	27·530	27·660
57·0	28·340	28·690	28·540	28·470					27·600	27·550	27·540	27·650
Therm.	78°9	79°6	80°1	81°0	82°0	84°0	81°6	82°4	82°2	82°1	81°9	81°2

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48′20	1°47′87	1°47′86	1°47′92	1°47′84	1°47′67	1°47′65	1°47′91	1°47′93	1°47′60	1°48′01	1°47′98
8·0	1·47·99	1·47·80	1·47·86	1·47·92					1·47·98	1·47·77	1·48·08	1·48·06
13·0	1·48·38	1·47·74	1·47·97	1·47·89					1·47·86	1·47·80	1·48·08	1·47·92
18·0	1·48·27	1·47·67	1·47·60	1·47·65					1·48·00	1·47·73	1·48·08	1·47·99
23·0	1·48·27	1·47·81	1·47·60	1·47·38					1·47·98	1·47·73	1·48·01	1·47·92
28·0	1·48·18	1·47·82	1·47·75	1·47·52					1·47·75	1·47·73	1·48·01	1·47·85
33·0	1·48·20	1·47·99	1·47·89	1·47·52	1·47·50	1·47·79	1·47·98	1·47·75	1·47·99	1·47·58	1·47·91	1·47·72
38·0	1·48·18	1·47·98	1·47·04	1·47·59					1·48·38	1·47·99	1·47·87	1·47·72
43·0	1·47·96	1·47·99	1·47·97	1·47·46					1·48·25	1·47·99	1·47·89	1·47·65
48·0	1·48·08	1·48·18	1·47·78	1·47·60					1·48·08	1·47·99	1·47·96	1·47·79
53·0	1·47·94	1·47·78	1·47·78	1·47·72					1·47·87	1·47·99	1·48·08	1·47·79
58·0	1·47·80	1·47·72	1·47·92	1·47·84					1·47·60	1·48·07	1·48·11	1·47·94

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16'172	17'270	17'133	15'966	14'660	13'219	12'584	11'741	12'601	13'372	14'317	14'728	14'249
5·0	16·447	17·167	17·064	15·966	14·728					13·442	14·317	14·660	14·249
10·0	16·447	17·270	17·064	15·966	14·694					13·459	14·317	14·660	14·249
15·0	16·653	17·270	16·996	15·931	14·592					13·562	14·386	14·728	14·317
20·0	16·926	17·270	16·996	15·691	14·592					13·630	14·483	14·728	14·317
25·0	16·721	17·270	16·858	15·553	14·317					13·768	14·523	14·592	14·317
30·0	16·756	17·270	16·653	15·623	14·249	12·463	*10·882	12·290	12·720	13·768	14·592	14·592	14·317
35·0	16·858	17·270	16·653	15·450	14·249					13·768	14·660	14·386	14·317
40·0	16·926	17·339	16·481	15·553	13·906					14·111	14·798	14·386	14·249
45·0	16·996	17·339	16·309	15·553	14·249					14·111	14·798	14·317	14·249
50·0	16·996	17·339	16·309	15·691	14·042					14·179	14·798	14·317	14·179
55·0	17·270	17·201	16·136	15·280	13·219					14·249	14·728	14·283	14·179

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·800	18·920	19·280	19·600	19·950	19·900	19·900	19·720	19·490	19·050	18·450	18·180	18·240
7·0	18·780	18·990	19·330	19·650	19·950					19·000	18·430	18·160	18·240
12·0	18·825	19·030	19·350	19·660	19·950					18·970	18·425	18·150	18·240
17·0	18·825	19·050	19·350	19·700	19·900					18·900	18·350	18·150	18·200
22·0	18·875	19·060	19·370	19·750	19·900					18·860	18·350	18·150	18·200
27·0	18·850	19·085	19·400	19·750	19·950					18·800	18·320	18·160	18·200
32·0	18·850	19·110	19·420	19·750	20·000	19·900	19·850	19·640	19·260	18·730	18·270	18·200	18·190
37·0	18·850	19·170	19·500	19·750	20·000					18·700	18·260	18·210	18·180
42·0	18·850	19·200	19·500	19·800	20·000					18·680	18·250	18·210	18·170
47·0	18·850	19·220	19·500	19·850	20·000					18·610	18·240	18·230	18·190
52·0	18·850	19·240	19·550	19·850	19·950					18·560	18·190	18·250	18·180
57·0	18·885	19·250	19·575	20·000	19·950					18·490	18·190	18·260	18·155
Therm.	81°0	81°0	81°6	82°8	84°0	84°5	85°0	85°0	85°0	85°2	85°0	84°0	83°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	0·13·30	0·13·30	-0·15·90	-1·25·90	-2·02·20					-0·14·60	-0·04·90	-0·23·80	-1·05·60
8·0	0·13·30	0·13·30	-0·22·90	-1·25·90	-2·02·20					-0·14·60	-0·10·00	-0·31·20	-1·05·60
13·0	0·13·30	0·06·10	-0·22·90	-1·25·90	-2·02·20					-0·09·60	-0·10·00	-0·31·20	-1·16·90
18·0	0·13·30	0·06·10	-0·22·90	-1·36·25	-2·02·20					-0·07·00	-0·10·00	-0·37·30	-1·16·90
23·0	0·13·30	0·06·10	-0·32·50	-1·36·50	-2·02·20					-0·07·00	-0·10·00	-0·37·30	-1·27·10
28·0	0·13·30	-0·00·30	-0·32·50	-1·36·25	-2·15·50	-2·15·50	-2·28·40	-1·19·35	-0·38·00	-0·07·00	-0·10·00	-0·37·30	-1·27·10
33·0	0·13·30	-0·00·30	-0·44·70	-1·36·25	-2·15·50					-0·07·00	-0·10·00	-0·45·60	-1·27·10
38·0	0·13·30	-0·00·30	-1·00·00	-1·36·25	-2·15·50					-0·07·00	-0·13·90	-0·45·60	-1·39·00
43·0	0·13·30	-0·07·20	-1·00·00	-1·45·15	-2·15·50					-0·08·50	-0·13·90	-1·01·40	-1·39·00
48·0	0·13·30	-0·07·20	-1·00·00	-1·45·15	-2·15·50					-0·08·50	-0·13·90	-1·01·40	-1·39·00
53·0	0·13·30	-0·07·20	-1·00·00	-1·45·15	-2·15·50					-0·08·50	-0·23·80	-1·01·40	-1·39·00
58·0	0·13·30	-0·15·90	-1·13·60	-2·02·20	-2·15·50	-2·15·50	-1·45·60	-1·02·50	-0·18·30	-0·04·90	-0·23·80	-1·05·60	-1·39·00
Therm.	82°0	81°5	81°6	82°5	83°1	83°9	84°5	84°2	84°7	85°2	85°2	84°4	83°8

* Disturbed by iron.

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	18′01	18′01	16′87	15′77	13′94	12′90	12′47	13′42	14′35	14′99	15′35	14′99
5·0	18·06	17·96	16·66	15·66					14·40	14·99	15·40	14·99
10·0	18·06	17·86	16·61	15·51					14·47	14·99	15·45	14·99
15·0	18·06	17·75	16·56	15·45					14·62	14·99	15·45	14·99
20·0	18·13	17·60	16·50	15·25					14·67	15·04	15·40	14·99
25·0	18·13	17·60	16·35	14·99					14·67	15·19	15·30	14·99
30·0	18·13	17·60	16·30	14·93	13·42	12·63	12·95	13·88	14·73	15·25	15·25	14·99
35·0	18·13	17·48	16·24	14·73					14·88	15·35	15·14	14·99
40·0	18·13	17·34	16·09	14·47					14·88	15·40	15·09	14·99
45·0	18·13	17·18	16·04	14·35					14·78	15·35	14·99	14·88
50·0	18·13	17·08	16·04	14·14					14·83	15·35	14·99	14·83
55·0	18·06	16·92	15·87	14·04					14·99	15·35	14·99	14·73

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	27·650	27·760	27·980	28·300	28·380	28·390	28·540	27·990	27·580	27·010	26·700	26·800
7·0	27·690	27·760	28·020	28·300					27·500	27·000	26·670	26·820
12·0	27·700	27·790	28·030	28·310					27·430	27·010	26·630	26·810
17·0	27·710	27·800	28·050	28·340					27·400	26·980	26·600	26·810
22·0	27·720	27·800	28·080	28·400					27·380	26·950	29·620	26·800
27·0	27·730	27·810	28·100	28·400					27·310	26·920	26·600	26·790
32·0	27·750	27·830	28·110	28·400	28·400	28·600	28·300	27·800	27·230	26·900	26·630	26·800
37·0	27·750	27·850	28·130	28·430					27·180	26·860	26·670	26·800
42·0	27·780	27·880	28·150	28·470					27·120	26·810	26·710	29·800
47·0	27·770	27·900	28·200	28·480					27·090	26·790	26·740	26·800
52·0	27·750	27·940	28·270	28·450					27·030	26·740	26·750	26·800
57·0	27·760	27·950	28·320	28·400					27·000	26·730	26·800	26·820
Therm.	78°2	79°0	79°0	81°3	81°9	81°9	82°4	82°5	82°3	82°1	81°8	81°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	*18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48′32	1°48′03	1°47′89	1°47′73	1°48′00	1°48′37	1°47′82	1°47′96	1°48′01	1°48′39	1°48′08	1°48′32
8·0	1·48·22	1·48·11	1·47·03	1·47·94					1·47·94	1·48·39	1·48·01	1·48·32
13·0	1·48·17	1·48·25	1·48·03	1·48·04					1·47·96	1·48·39	1·48·01	1·48·47
18·0	1·48·03	1·48·19	1·48·13	1·48·23					1·47·92	1·48·32	1·48·08	1·48·68
23·0	1·48·03	1·48·34	1·48·03	1·48·25					1·47·99	1·48·13	1·48·23	*1·50·40
28·0	1·48·03	1·48·20	1·48·04	1·48·47					1·48·13	1·48·02	1·48·23	1·50·26
33·0	1·48·03	1·48·13	1·48·25	1·48·61	1·48·25		1·48·08	1·47·65	1·47·99	1·42·94	1·48·37	1·50·26
38·0	1·47·89	1·48·13	1·48·23	1·48·27					1·48·00	1·48·01	1·48·17	1·50·26
43·0	1·47·96	1·47·96	1·48·47	1·48·61					1·48·00	1·48·15	1·48·32	1·50·33
48·0	1·47·96	1·47·94	1·48·47	1·48·54					1·48·33	1·48·15	1·48·39	1·50·33
53·0	1·47·96	1·47·94	1·48·61	1·48·68					1·48·33	1·48·15	1·48·39	1·50·26
58·0	1·47·96	1·47·91	1·48·20	1·47·90					1·48·32	1·48·08	1·48·35	1·50·26

* Disturbed.

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	16'378	17'682	17'339	15'004	12'601	12'067	12'222	13'837	14'386	15'250	15'280	14'867	14'042
5·0	16·447	17·750	17·201	14·936	12·533					15·280	15·280	14·798	13·906
10·0	16·584	17·956	17·064	14·762	12·533					15·365	15·314	14·798	13·837
15·0	16·721	18·025	16·960	14·592	12·533					15·382	15·280	14·660	13·837
20·0	16·721	18·093	16·584	14·249	12·533					15·416	15·211	14·592	13·700
25·0	16·392	17·956	16·378	14·249	12·360					15·485	15·142	14·660	13·700
30·0	17·339	18·025	16·240	14·249	12·188	11·845	12·676	14·093	14·798	15·553	15·142	14·567	13·700
35·0	17·270	17·956	16·309	13·562	12·188					15·519	15·004	14·454	13·700
40·0	17·270	17·819	15·623	13·562	12·188					15·416	15·142	14·249	13·630
45·0	17·339	17·716	15·623	13·389	11·845					15·348	14·936	14·042	13·596
50·0	17·407	17·682	15·623	13·047	11·845					15·314	14·936	14·042	13·596
55·0	17·682	17·544	15·348	12·876	11·845					15·280	14·936	14·111	13·630

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·720	17·870	18·020	18·450	18·500	18·450	18·250	17·850	17·700	17·760	17·605	17·750	17·830
7·0	17·775	17·895	18·100	18·450	18·500					17·750	17·600	17·750	17·840
12·0	17·830	17·880	18·100	18·450	18·400					17·720	17·590	17·710	17·810
17·0	17·880	17·860	18·105	18·450	18·400					17·715	17·600	17·720	17·850
22·0	17·810	17·855	18·180	18·450	18·350					17·710	17·610	17·750	17·880
27·0	17·850	17·850	18·230	18·450	18·400					17·700	17·690	17·740	17·860
32·0	17·900	17·860	18·260	18·450	18·450	18·350	18·050	17·800	17·720	17·700	17·700	17·790	17·875
37·0	17·860	17·860	18·300	18·550	18·450					17·670	17·710	17·800	17·860
42·0	17·930	17·890	18·350	18·460	18·450					17·670	17·740	17·825	17·825
47·0	17·850	17·910	18·350	18·550	18·450					17·670	17·750	17·820	17·860
52·0	17·860	17·945	18·400	18·550	18·450					17·650	17·750	17·840	17·805
57·0	17·860	18·000	18·450	18·550	18·450					17·630	17·750	17·805	17·850
Therm.	81°1	81°7	82°1	83°9	84°8	85°2	86°0	86°0	86°0	85°0	85°0	83°3	82°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	1·01·80	1·08·50	-0·40·30	-1·30·50	-2·18·50					1·01·90	0·35·40	0·25·50	0·21·30
8·0	1·01·80	0·46·50	-1·04·70	-1·43·35	-2·18·50					0·48·25	0·35·40	0·25·50	0·21·30
13·0	1·08·50	0·46·50	-1·04·70	-1·43·85	-2·18·50					0·48·25	0·35·40	0·25·50	0·21·30
18·0	1·08·50	0·36·20	-1·11·80	-2·02·10	-2·18·50					0·46·00	0·35·04	0·25·50	0·21·30
23·0	1·08·50	0·29·20	-1·11·80	-2·02·10	-2·18·50					0·46·00	0·35·04	0·25·50	0·15·50
28·0	1·08·50	0·19·30	-1·11·80	-2·02·10	-2·18·50	-2·21·10	0·28·30	0·37·95	1·01·90	0·37·85	0·32·05	0·25·50	0·15·50
33·0	1·08·50	0,12·60	-1·11·80	-2·10·90	-2·30·25					0·37·85	0·32·05	0·25·50	0·15·50
38·0	1·08·50	0·00·80	-1·22·65	-2·10·90	-2·30·25					0·37·30	0·28·30	0·17·80	0·15·50
43·0	1·08·50	-0·11·60	-1·22·65	-2·10·90	-2·30·40					0·37·30	0·28·30	0·17·80	0·15·50
48·0	1·08·50	-0·18·90	-1·22·65	-2·18·50	-2·30·40					0·37·30	0·28·30	0·17·80	0·15·50
53·0	1·08·50	-0·30·80	-1·30·50	-2·18·50	-2·30·40					0·37·39	0·28·30	0·17·80	0·15·50
58·0	1·08·50	-0·40·30	-1·30·50	-2·18·50	-2·30·40	-2·15·60	0·33·30	0·37·95	1·01·90	0·35·40	0·25·50	0·21·30	0·10·60
Therm.	82°8	82°3	82°5	83°0	84°1	84°5	85°2	85°6	85°5	84°4	84°6	83°9	83°5

TERM HOUR OBSERVATIONS ON THE 22ND AND 23RD AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	18′59	18′33	16′30	13′68	12′95	13′42	14′88	15′04	16′14	16′04	15′51	14′98
5·0	18·65	18·13	16·04	13·47					16·24	16·04	15·56	14·73
10·0	18·80	18·13	15·77	13·42					16·40	16·04	15·51	14·67
15·0	18·96	17·80	15·51	13·36					16·40	16·04	15·51	14·52
20·0	19·06	17·65	15·40	13·36					16·35	16·04	15·51	14·47
25·0	19·06	17·53	15·14	13·36					16·35	16·04	15·45	14·47
30·0	18·96	17·34	14·99	13·36	13·16	13·94	15·04	15·51	16·35	16·04	15·30	14·47
35·0	18·91	17·08	14·78	13·16					16·35	15·97	14·99	14·47
40·0	18·91	16·92	14·47	13·06					16·40	15·77	14·99	14·47
45·0	18·75	16·76	14·35	12·95					16·24	15·56	14·98	14·47
50·0	18·70	16·61	14·09	12·90					16·09	15·51	14·98	14·47
55·0	18·59	16·45	13·94	12·90					16·04	15·51	14·99	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	25·700	25·940	26·250	26·520	26·480	26·150	25·930	25·970	25·900	26·030	26·020	25·950
7·0	25·720	25·970	26·250	26·530					25·900	26·070	25·970	26·930
12·0	25·700	26·050	26·280	26·525					25·850	26·080	25·900	25·920
17·0	25·700	26·080	26·300	26·470					25·870	26·100	25·900	25·900
22·0	25·710	26·060	26·300	26·370					25·850	26·120	25·900	25·910
27·0	25·710	26·090	26·300	26·370					25·850	26·130	25·900	25·900
32·0	25·730	26·130	26·340	26·430	26·250	26·040	25·820	26·090	25·870	26·100	25·900	25·920
37·0	25·750	26·170	26·400	26·450					25·880	26·090	25·940	25·930
42·0	25·780	26·210	26·450	26·500					25·890	26·100	25·990	25·940
47·0	25·880	26·200	26·480	26·500					25·900	26·100	25·980	25·960
52·0	25·850	26·220	26·500	26·500					25·920	26·100	25·990	26·030
57·0	25·890	26·250	26·510	26·470					25·980	26·090	25·970	26·050
Therm.	79°3	79°5	80°2	81°4	82°0	83°4	83°3	83°0	82°0	81°8	80°2	80°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°50′75	1°50′55	1°50′50	1°50′26	1°50′60	1°50′60	1°50′49	1°50′33	1°50′65	1°50′71	1°50′66	1°50′98
8·0	1·50·67	1·50·55	1·50·59	1·50·34					1·50·65	1·50·85	1·50·59	1·50·85
13·0	1·50·88	1·50·56	1·50·55	1·50·48					1·50·74	1·50·52	1·50·59	1·50·78
18·0	1·50·95	1·50·74	1·50·53	1·50·77					1·50·59	1·50·49	1·50·60	1·50·76
23·0	1·50·87	1·50·61	1·50·47	1·50·91					1·50·63	1·50·56	1·50·67	1·50·79
28·0	1·50·74	1·50·60	1·50·62	1·50·74					1·50·70	1·50·49	1·50·78	1·50·79
33·0	1·50·81	1·50·60	1·50·90	1·50·57	1·50·52	1·50·11	1·50·60	1·50·45	1·50·62	1·50·64	1·50·88	1·50·79
38·0	1·50·74	1·50·81	1·50·50	1·50·72					1·50·59	1·50·65	1·50·96	1·50·79
43·0	1·50·74	1·50·26	1·50·65	1·50·72					1·50·49	1·50·79	1·50·90	1·50·79
48·0	1·50·64	1·50·55	1·50·62	1·50·38					1·50·28	1·50·73	1·50·98	1·50·72
53·0	1·50·75	1·50·83	1·50·43	1·50·38					1·50·24	1·50·73	1·50·98	1·50·54
58·0	1·50·61	1·50·71	1·50·40	1·50·38					1·50·21	1·50·73	1·51·05	1·50·57

TERM HOUR OBSERVATIONS ON THE 24TH AND 25TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′102	16′996	15′897	13′906	11′157	10′128	10′295	11′707	13′236	14′798	15′623	16′309	15′966
5·0	16·309	16·996	15·691	13·630	10·814					14·936	15·623	16·240	15·897
10·0	16·447	16·958	15·623	13·425	10·814					14·936	15·623	16·240	15·897
15·0	16·584	16·926	15·348	13·287	10·814					15·176	15·760	16·378	15·553
20·0	16·653	16·789	15·280	13·219	10·814					15·280	15·931	16·515	15·485
25·0	16·653	16·721	15·074	12·876	10·573					15·348	16·034	16·515	15·416
30·0	16·721	16·721	14·936	12·601	10·471	10·402	10·814	12·533	14·249	15·519	16·102	16·447	15·416
35·0	16·789	16·584	14·660	12·533	10·471					15·519	16·051	16·412	15·485
40·0	16·858	16·584	14·523	12·533	10·471					15·416	16·240	16·412	15·348
45·0	16·858	16·309	14·386	12·188	10·471					15·553	16·240	16·412	15·280
50·0	16·926	16·102	14·076	11·776	10·196					15·553	16·240	16·309	15·142
55·0	16·926	15·966	13·906	11·501	10·196					15·553	16·309	16·172	15·142

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·550	18·655	18·960	19·550	19·750	19·600	19·050	18·300	17·700	17·400	17·200	17·360	17·130
7·0	18·550	18·710	19·010	19·550	19·690					17·390	17·200	17·450	17·050
12·0	18·560	18·700	19·400	19·600	19·700					17·390	17·150	17·450	17·015
17·0	18·565	18·765	19·190	19·600	19·650					17·385	17·150	17·420	17·020
22·0	18·650	18·785	19·260	19·600	19·650					17·410	17·120	17·420	17·050
27·0	18·650	18·750	19·340	19·600	19·650					17·450	17·120	17·410	17·030
32·0	18·640	18·780	19·400	19·600	19·675	19·350	18·600	17·940	17·500	17·430	17·120	17·380	16·950
37·0	18·625	18·820	19·450	19·650	19·650					17·370	17·100	17·280	16·850
42·0	18·670	18·840	19·450	19·650	19·650					17·310	17·140	17·140	16·840
47·0	18·660	18·885	19·550	19·700	19·650					17·325	17·300	17·100	16·810
52·0	18·600	18·920	19·550	19·700	19·650					17·200	17·305	17·100	16·770
57·0	18·600	18·945	19·550	19·700	19·650					17·200	17·320	17·140	16·770
Therm.	81°0	81°0	81°0	82°0	83°0	84°0	85°0	85°2	85°0	84°5	84°6	84°1	83°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·42·30	1·32·20	0·41·80	0·14·95	-0·08·85					1·34·50	1·20·35	1·07·70	0·38·20
8·0	1·42·30	1·32·20	0·41·80	0·14·95	-0·08·85					1·34·50	1·20·35	0·44·90	0·38·20
13·0	1·42·30	1·32·20	0·35·00	0·04·25	-0·08·85					1·40·50	1·20·35	0·44·90	0·38·20
18·0	1·42·30	1·24·80	0·35·00	0·04·25	-0·08·85					1·40·50	1·20·35	0·44·90	0·38·20
23·0	1·42·30	1·24·80	0·35·00	0·04·25	-0·08·85					1·40·50	1·20·35	1·07·00	0·38·20
28·0	1·42·30	1·24·80	0·26·70	0·04·25	-0·08·85					1·38·50	1·20·35	1·07·00	0·38·20
33·0	1·42·30	1·15·50	0·26·70	-0·02·90	-0·08·85	-0·08·85	-0·04·50	0·30·10	1·23·20	1·38·50	1·16·95	1·07·00	0·38·20
38·0	1·42·30	1·15·50	0·26·70	-0·02·90	-0·08·85					1·31·50	2·16·95	1·07·00	0·27·80
43·0	1·36·30	1·07·00	0·26·70	-0·02·90	-0·08·85					1·27·25	2·16·95	1·07·00	0·27·80
48·0	1·36·30	1·07·00	0·14·95	-0·02·90	-0·08·85					1·27·25	2·07·70	1·00·20	0·27·80
53·0	1·32·20	1·48·70	0·14·95	-0·02·90	-0·08·85					1·27·25	2·07·70	0·44·20	0·27·80
58·0	1·32·20	1·45·00	0·14·95	-0·08·85	-0·08·85	-0·07·10	0·10·30	0·44·50	1·34·50	1·25·30	2·07·70	0·38·20	0·27·80
Therm.	83°1	82°0	81°5	82°0	82°5	83°5	84°0	84°6	85°2	84°4	84°7	84°8	83°9

TERM HOUR OBSERVATIONS ON THE 24TH AND 25TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′60	16′66	14′52	12′11	11′07	11′33	12′78	13′99	15′45	16′45	17′02	16′76
5·0	17·60	16·56	14·47	11·90					15·51	16·50	17·08	16·56
10·0	17·60	16·45	14·20	11·85					15·56	16·50	17·08	16·45
15·0	17·60	16·24	14·04	11·79					15·87	16·56	17·08	16·14
20·0	17·60	16·04	13·94	11·64					16·04	16·56	17·13	16·04
25·0	17·60	15·92	13·73	11·48					16·04	16·56	17·13	16·04
30·0	17·53	15·77	13·42	11·33	11·07	11·85	13·42	14·83	16·14	16·66	17·13	16·04
35·0	17·39	15·51	13·16	11·33					16·19	16·71	17·13	16·09
40·0	17·28	15·40	12·95	11·27					16·14	16·82	17·08	16·04
45·0	17·43	15·19	12·78	11·17					16·09	16·97	17·08	15·97
50·0	16·97	14·99	12·52	11·07					16·14	17·08	17·08	15·97
55·0	16·82	14·73	12·37	11·07					16·24	17·08	17·02	15·82

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	26·850	27·170	27·700	27·740	27·600	26·990	26·100	25·700	25·660	25·200	25·300	25·000
7·0	26·890	27·200	27·700	27·780					25·520	25·160	25·350	24·940
12·0	26·900	27·260	27·700	27·740					25·600	25·100	25·400	24·900
17·0	26·920	27·300	27·700	27·670					25·550	25·060	25·390	24·870
22·0	26·950	27·370	27·700	27·610					25·530	25·040	25·380	24·890
27·0	26·960	27·430	27·700	27·600					25·490	25·010	25·400	24·890
32·0	27·010	27·450	27·720	27·600	27·400	26·500	25·740	25·690	25·440	25·000	25·350	24·820
37·0	27·040	27·500	27·790	27·600					25·400	25·020	25·280	24·760
42·0	27·090	27·530	27·760	27·610					25·360	25·100	25·200	24·720
47·0	27·100	27·590	27·750	27·600					25·300	25·150	25·120	24·680
52·0	27·120	27·640	27·780	27·630					25·270	25·200	25·050	24·650
57·0	27·160	27·700	27·730	27·610					25·240	25·260	24·980	24·660
Therm.	78°0	78°0	78°4	79°5	80°4	82°0	82°4	82°3	82°0	81°5	81°7	80°5

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°50′21	1°50′26	1°50′13	1°49′98	1°50′24	1°50′41	1°50′38	1°50′33	1°50′59	1°50′26	1°50′53	1°50′47
8·0	1·50·21	1·50·05	1·50·00	1·49·77					1·50·73	1·50·26	1·50·46	1·50·40
13·0	1·50·07	1·50·12	1·50·08	1·49·91					1·50·59	1·50·26	1·50·46	1·50·54
18·0	1·50·14	1·49·99	1·50·09	1·50·06					1·50·68	1·50·40	1·50·60	1·50·33
23·0	1·50·00	1·50·21	1·50·31	1·50·34					1·50·64	1·50·57	1·50·74	1·50·42
28·0	1·49·93	1·50·28	1·50·11	1·50·25					1·50·56	1·50·67	1·50·59	1·50·35
33·0	1·50·07	1·50·30	1·50·12	1·50·29	1·50·51	1·50·20	1·50·34	1·50·62	1·50·59	1·50·74	1·50·52	1·50·49
38·0	1·50·36	1·50·31	1·50·19	1·50·44					1·50·45	1·50·55	1·50·48	1·50·70
43·0	1·50·51	1·50·31	1·50·34	1·50·44					1·50·35	1·50·60	1·50·63	1·50·71
48·0	1·50·53	1·50·33	1·50·28	1·50·58					1·50·33	1·50·60	1·50·63	1·50·78
53·0	1·50·46	1·50·02	1·50·02	1·50·31					1·50·33	1·50·66	1·50·53	1·50·50
58·0	1·50·33	1·49·99	1·50·03	1·50·31					1·50·17	1·50·53	1·50·53	1·50·50

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16·084	16·926	16·584	15·280	13·562	11·569	10·814	11·465	12·394	13·871	14·901	15·038	14·523
5·0	16·309	16·996	16·515	15·280	13·562					13·871	14·936	15·004	14·386
10·0	16·343	17·030	16·378	15·280	13·425					13·905	14·936	15·004	14·454
15·0	16·343	16·996	16·378	15·214	13·389					14·042	14·936	14·936	14·317
20·0	16·378	16·996	16·309	14·660	13·219					14·179	15·074	14·867	14·386
25·0	16·653	17·064	16·172	14·592	12·876					14·386	15·074	14·867	14·179
30·0	16·721	17·064	16·102	14·592	12·533	10·814	11·327	11·845	13·219	14·592	15·074	14·867	14·042
35·0	16·789	16·996	15·897	14·420	12·188					14·660	15·108	14·798	13·974
40·0	16·858	16·996	15·966	14·249	12·119					14·694	15·074	14·728	13·974
45·0	16·858	16·858	15·897	13·940	11·845					14·728	15·074	14·660	13·974
50·0	16·721	16·789	15·691	13·906	11·845					14·728	15·074	14·592	13·906
55·0	16·858	16·721	15·623	13·906	11·845					14·936	15·004	14·592	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·430	18·700	19·080	19·725	19·800	19·850	19·800	19·660	19·360	19·150	18·900	18·760	18·590
7·0	18·450	18·750	19·110	19·750	19·812					19·120	18·890	18·760	18·590
12·0	18·500	18·730	19·150	19·750	19·750					19·100	18·890	18·710	18·600
17·0	18·505	18·780	19·210	19·750	19·700					19·130	18·880	18·690	18·590
22·0	18·530	18·820	19·250	19·750	19·750					19·100	18·800	18·680	18·550
27·0	18·585	18·845	19·300	19·750	19·850					19·100	18·800	18·660	18·520
32·0	18·570	18·880	19·350	19·750	19·900	19·850	19·700	19·500	19·210	18·970	18·800	18·620	18·520
37·0	18·600	18·880	19·400	19·800	19·900					18·900	18·800	18·600	18·560
42·0	18·615	18·900	19·465	19·800	19·950					18·900	18·810	18·610	18·550
47·0	18·600	18·940	19·500	19·800	19·950					18·900	18·800	18·600	18·570
52·0	18·650	18·950	19·550	19·800	19·950					18·900	18·780	18·590	18·560
57·0	18·690	19·000	19·600	19·800	19·900					18·900	18·760	18·600	18·560
Therm.	80°6	81°0	81°0	81°9	83°0	83°9	84°0	84°4	84°0	84°0	83°4	83°0	82°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·13·00	2·06·70	1·24·50	0·36·65	0·01·25					1·11·10	1·32·90	1·17·20	1·10·50
8·0	2·13·00	2·06·70	1·14·80	0·25·20	0·01·25					1·11·10	1·38·10	1·17·20	1·10·50
13·0	2·13·00	2·06·70	1·14·80	0·25·20	0·01·25					1·11·10	1·38·10	1·10·60	1·10·50
18·0	2·13·00	1·49·30	1·09·10	0·25·20	0·01·25					1·11·10	1·38·10	1·10·60	1·10·50
23·0	2·13·00	1·49·30	1·09·10	0·20·30	-0·09·70					1·16·20	1·38·10	1·10·60	1·10·50
28·0	2·13·00	1·42·00	1·09·10	0·20·30	-0·09·70	-0·19·20	0·09·00	0·16·30	0·47·05	1·16·20	1·34·10	1·10·60	1·10·50
33·0	2·13·00	1·42·00	1·03·70	0·20·30	-0·09·70					1·16·20	1·34·10	1·10·60	1·04·25
38·0	2·13·00	1·33·25	1·03·70	0·20·30	-0·19·20					1·19·60	1·34·10	1·10·60	1·04·25
43·0	2·13·00	1·30·30	0·43·25	0·12·35	-0·19·20					1·23·90	1·34·10	1·03·30	1·04·25
48·0	2·13·00	1·30·30	0·43·25	0·12·35	-0·19·20					1·26·35	1·25·00	1·03·30	1·04·25
53·0	2·13·00	1·24·50	0·36·65	0·12·35	-0·19·20					1·30·20	1·25·00	1·03·30	1·04·25
58·0	2·13·00	1·24·50	0·36·65	0·10·25	-0·19·20	-0·07·80	0·09·20	0·25·30	1·11·10	1·32·90	1·17·20	1·10·50	1·04·25
Therm.	82°0	81°7	81°5	81°7	82°5	83°0	83°8	84°0	84°2	84°0	83°7	83°3	82°5

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'60	17'08	16'04	14'20	12'26	11'33	12'00	12'90	14'47	15'40	15'56	14'93
5·0	17·60	17·08	15·97	14·04					14·47	15·45	15·56	14·73
10·0	17·60	17·08	15·77	13·99					14·67	15·51	15·51	14·73
15·0	17·60	16·97	15·51	13·94					14·73	15·51	15·51	14·62
20·0	17·60	16·82	15·30	13·88					14·93	15·51	15·51	14·67
25·0	17·60	16·82	15·14	13·57					14·99	15·51	15·51	14·47
30·0	17·60	16·61	14·99	13·36	11·38	12·11	12·37	13·94	15·04	15·56	15·45	14·47
35·0	17·60	16·56	14·99	13·10					15·19	15·51	15·40	14·47
40·0	17·53	16·56	14·73	12·90					15·25	15·51	15·25	14·47
45·0	17·34	16·45	14·62	12·63					15·19	15·51	15·14	14·47
50·0	17·28	16·35	14·47	12·37					15·25	15·56	15·04	14·40
55·0	17·18	16·19	14·47	12·37					15·40	15·56	14·99	1 4·20

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	26·720	27·200	27·630	27·690	27·830	27·950	27·900	27·640	27·150	27·100	26·790	26·800
7·0	26·750	27·200	27·700	27·700					27·100	27·120	26·790	26·820
12·0	26·740	27·260	27·700	27·660					27·060	27·100	26·760	26·830
17·0	26·790	27·230	27·700	27·590					27·040	27·090	26·750	26·840
22·0	26·820	27·300	27·700	27·560					27·010	27·040	26·720	26·809
27·0	26·870	27·300	27·700	27·630					27·000	27·020	26·700	26·800
32·0	26·900	27·340	27·700	27·700	27·800	27·650	27·500	27·310	27·000	26·980	26·700	26·790
37·0	26·940	27·400	27·710	27·760					27·020	26·950	26·700	26·800
42·0	27·000	27·400	27·720	27·900					27·090	26·920	26·720	26·780
47·0	27·040	27·430	27·700	27·850					27·110	26·900	26·730	26·800
52·0	27·070	27·500	27·700	27·900					27·150	26·830	26·750	26·850
57·0	27·120	27·570	27·700	27·890					27·120	26·800	26·780	26·890
Therm.	78°0	78°0	78°4	79°7	80°2	81°0	81°2	80°8	80°4	80°0	80°0	79°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°50'28	1°50'36	1°49'92	1°49'93	1°50'24	1°49'63	1°50'00	1°49'91	1°50'24	1°50'40	1°50'54	1°50'31
8·0	1·50·35	1·50·39	1·50·06	1·50·21					1·50·09	1·50·44	1·50·50	1·50·16
13·0	1·50·38	1·50·31	1·50·21	1·50·37					1·50·13	1·50·44	1·50·50	1·50·24
18·0	1·50·35	1·50·45	1·50·42	1·50·48					1·50·12	1·50·44	1·50·44	1·60·26
23·0	1·50·35	1·50·53	1·50·02	1·50·45					1·50·26	1·50·57	1·50·37	1·50·47
28·0	1·50·41	1·50·39	1·50·09	1·50·26					1·50·33	1·50·43	1·50·37	1·50·26
33·0	1·50·41	1·50·46	1·50·24	1·50·05	1·50·06	1·50·00	1.50·23	1·50·16	1·50·38	1·50·43	1·50·37	1·50·12
38·0	1·50·50	1·50·26	1·50·21	1·49·85					1·50·31	1·50·43	1·50·45	1·50·05
43·0	1·50·36	1·50·33	1·49·88	1·49·78					1·50·34	1·50·32	1·50·38	1·50·19
48·0	1·50·21	1·50·26	1·49·99	1·49·80					1·50·23	1·50·43	1·50·31	1·50·19
53·0	1·50·14	1·50·19	1·49·99	1·50·23					1·50·28	1·50·43	1·50·24	1·50·13
58·0	1·50·22	1·50·26	1·50·12	1·50·52					1·50·44	1·50·36	1·50·24	1·50·21

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH AUGUST 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′623	17′612	18′299	17′441	15′314	13′837	12′703	10′951	10′814	11′918	13′219	13′974	14′042
5·0	15·897	17·819	18·299	17·339	15·280					12·050	13·287	13·974	13·974
10·0	15·931	17·956	18·369	17·339	14·935					12·119	13·425	13·974	13·906
15·0	16·102	18·025	18·299	17·270	14·936					12·256	13·493	14·111	13·768
20·0	16·309	18·059	18·196	17·064	14·728					12·394	13·630	14·179	13·562
25·0	16·584	18·093	18·162	16·653	14·317					12·533	13·768	14·249	13·425
30·0	16·653	18·162	18·369	16·653	14·317	12·944	11·981	11·088	11·293	12·601	13·768	14·249	13·287
35·0	16·996	18·231	18·025	16·653	14·249					12·601	13·837	14·179	13·151
40·0	17·201	18·231	18·025	16·309	14·213					12·703	13·906	14·213	13·081
45·0	17·407	18·231	18·025	16·034	13·974					12·806	13·906	14·213	13·030
50·0	17·544	18·231	18·025	15·966	13·906					12·944	13·940	14·213	13·013
55·0	17·612	18·299	17·509	15·966	13·871					13·150	13·974	14·111	13·081

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·300	19·150	19·400	19·650	19·900	19·900	19·850	19·660	19·310	18·940	18·680	18·600	18·560
7·0	19·280	19·170	19·400	19·650	19·950					18·910	18·670	18·610	18·560
12·0	19·260	19·200	19·410	19·700	19·950					18·870	18·660	18·570	18·540
17·0	19·240	19·250	19·450	19·700	20·000					18·850	18 660	18·570	18·555
22·0	19·240	19·330	19·455	19·660	20·050					18·850	18·650	18·580	18·550
27·0	19·210	19·320	19·450	19·700	20·050					18·840	18 620	18·650	18·530
32·0	19·180	19·320	19·450	19·710	20·050	19·850	19·750	19·375	18·970	18·840	18·610	18·670	18·520
37·0	19·230	19·340	19·450	19·705	20·000					18·830	18·590	18·690	18·510
42·0	19·250	19·360	19·450	19·750	19·900					18·830	18·570	18·650	18·500
47·0	19·200	19·350	19·450	19·750	19·850					18·775	18·550	18·580	18·450
52·0	19·130	19·400	19·500	19·800	19·850					18·740	18·560	18·550	18·450
57·0	19·130	19·400	19·555	19·850	19·950					18·720	18·570	18·550	18·430
Therm.	80°8	81°0	81°8	83°0	82°0	83°6	84°5	84°8	84°9	84°9	84°9	84°0	83°1

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·20·50	3·31·20	2·45·30	1·42·60	1·12·10					1·10·40	1·29·65	1·40·20	2·04·60
8·0	3·25·00	3·24·40	2·39·10	1·42·60	1·03·90					1·10·40	1·29·65	1·40·20	2·04·60
13·0	3·25·00	3·24·40	2·39·10	1·29·80	1·03·90					1·10·40	1·29·65	1·42·90	2·04·60
18·0	3·25·00	3·24·40	2·31·10	1·29·80	1·03·90					1·15·85	1·29·65	1·42·90	2·04·60
23·0	3·25·00	3·24·40	2·31·10	1·29·80	0·03·90					1·15·85	1·29·65	1·42·90	2·04·60
28·0	3·25·00	3·12·70	2·23·70	1·19·80	0·44·50	0·26·70	0·04·80	−0·01·15	0·32·75	1·15·85	1·29·65	1·42·90	2·00·10
33·0	3·31·20	3·12·70	2·16·80	1·19·80	0·44·50					1·15·85	1·29·65	1·42·90	2·00·10
38·0	3·31·20	3·12·70	2·16·80	1·12·10	0·44·50					1·15·85	1·32·50	1·42·90	2·00·10
43·0	3·31·20	3·04·50	2·16·80	1·12·10	0·44·50					1·20·55	1·32·50	2·04·60	2·00·10
48·0	3·31·20	3·04·50	2·04·90	1·12·10	0·44·50					1·20·55	1·32·50	2·04·60	2·00·10
53·0	3·31·20	3·04·50	2·04·90	1·12·10	0·44·50					1·20·55	1·40·20	2·04·60	2·00·10
58·0	3·31·20	2·45·30	1·42·60	1·12·10	0·33·95	0·20·40	−0·07·45	0·06·25	1·04·90	1·29·65	1·40·20	2·04·60	2·00·10
Therm.	82°4	81°3	82°0	82°5	82°2	82°6	83°6	84°0	84°6	84°3	85°2	84°5	83°2

TERM HOUR OBSERVATIONS ON THE 29TH AND 30TH AUGUST 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	18'39	19'19	18'18	16'04	14'47	13'42	11'85	10'81	12'63	14'04	14'47	14'73
5·0	18·54	19·19	18·13	15·92					12·83	14·09	14·47	14·78
10·0	18·65	19·19	18 13	15·71					12·90	14·20	14·47	14·67
15·0	18·70	19·19	17·86	15·51					13·10	14·25	14·52	14·47
20·0	18.85	19·19	17·65	15·51					13·31	14·40	14·67	14·35
25·0	18·91	19·11	17·60	15·35					13·36	14·47	14·73	14·20
30·0	19·06	19·01	17·38	15·19	13·94	12·63	11·85	12·14	13·42	14·47	14·73	13·94
35·0	19·11	18·85	17·08	14·99					13·68	14·47	14·73	13·88
40·0	19·19	18·70	16·82	14·93					13·94	14·47	14·78	13·94
45·0	19·19	18·65	16·56	14·73					14·09	14·47	14·83	13·94
50·0	19·19	18·59	16·35	14·67					14·25	14·47	14·83	13·88
55·0	19·19	18·44	16·04	14·52					14·14	14·47	14·73	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	26·660	26·800	27·100	27·850	27·520	27·500	27·200	26·920	26·550	26·150	26·400	26·400
7·0	26·650	26·800	27·160	27·890					26·500	26·130	26·490	26·400
12·0	26·700	26·800	27·200	27·880					26·440	26·180	26·500	26·400
17·0	26·700	26·780	27·180	27·890					26·390	26·200	26·500	26·380
22·0	26·720	26·800	27·230	27·890					26·340	26·210	26·510	26·370
27·0	26·750	26·860	27·260	27·900					26·350	26·230	26·510	26·350
32·0	26·800	26 880	27·390	27·880	27·400	27·400	26·910	26·580	26·320	26·250	26·550	26·320
37·0	26·800	26·870	27·520	27·820					26·300	26·270	26·590	26·340
42·0	26·800	26·890	27·610	27·690					26·300	26·280	26·540	26·370
47·0	26·800	26·940	27·700	27·560					26·280	26·300	26·490	26·300
52·0	26·840	27·000	27·800	27·500					26·230	26·340	26·440	26·300
57·0	26·810	27·050	27·840	27·540					26·190	26·390	26·420	26·280
Therm.	78°0	78°4	79°0	79°2	80°0	81°3	82°0	82°0	82°0	82°1	81°7	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°49'67	1°48'35	1°48'06	1°47'50	1°48'06	1°48'35	1°47'89	1°47'75	1°47'99	1°48'15	1°48'33	1°48'40
8·0	1·49·73	1·48·35	1·47·96	1·48·06					1·48·13	1·48·22	1·48·33	1·48·38
13·0	1·49·73	1·48·42	1·48·10	1·47·86					1·48·06	1·48·21	1·48·19	1·48·27
18·0	1·49·51	1·48·35	1·48·32	1·48·01					1·48·05	1·48·13	1·48·33	1·48·13
23·0	1·49·25	1·48·25	1·48·25	1·47·94					1·48·18	1·48·13	1·48·40	1·48·20
28·0	1·49·14	1·48·21	1·47·99	1·47·67					1·48·18	1·48·27	1·48·47	1·48·36
33·0	1·48·92	1·48·56	1·48·13	1·47·82	1·47·37	1·47·77	1·48·03	1·47·94	1·48·25	1·48·13	1·48·47	1·48·35
38·0	1·48·56	1·48·21	1·48·13	1·47·89					1·48·25	1·48·20	1·48·40	1·48·22
43·0	1·48·42	1·48·22	1·47·79	1·47·90					1·48·35	1·48·27	1·48·43	1·48·29
48·0	1·48·28	1·48·36	1·47·66	1·48·13					1·48·31	1·48·27	1·48·43	1·48·44
53·0	1·48·14	1·48·36	1·47·74	1·48·13					1·48·44	1·48·30	1·48·43	1·48·51
58·0	1·48·39	1·47·97	1·48·17	1·48·09					1·48·22	1·48·33	1·48·47	1·48·58

TERM HOUR OBSERVATIONS ON THE 31ST AUGUST AND 1ST SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	15′485	16′721	16′721	15′623	14′249	12′188	11′122	11′225	11′845	13′219	14′008	13′837	12′876
5·0	15·760	16·789	16·653	15·623	13·906					13·315	14·008	13·630	12·876
10·0	15·794	16·789	16·515	15·623	13·906					13·355	14·008	13·562	12·876
15·0	15·966	16·858	16·447	15·623	13·527					13·493	14·008	13·562	12·876
20·0	16·034	16·858	16·379	15·416	13·219					13·562	14·008	13·562	12·876
25·0	16·172	16·926	16·378	14·936	13·219					13·630	14·008	13·562	12·944
30·0	16·412	16·926	16·309	14·936	13·219	11·501	10·951	11·569	12·394	13·734	14·008	13·355	13·013
35·0	16·515	16·926	16·309	14·936	12·876					13·837	14·042	13·287	13·081
40·0	16·653	16·926	16·309	14·592	12·876					13·906	14·042	13·219	13·150
45·0	16·653	16·858	16·309	14·249	12·576					13·906	13·974	13·081	13·081
50·0	16·653	16·858	15·725	14·249	12·533					13·940	13·906	13·013	13·150
55·0	16·721	16·858	15·691	14·249	12·222					13·940	13·906	12·876	13·219

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	19·050	19·210	19·620	20·050	20·500	20·550	20·175	19·890	19·420	19·040	18·910	18·890	18·760
7·0	19·050	19·250	19·670	20·050	20·550					19·000	18·910	18·890	18·700
12·0	19·050	19·300	19·690	20·090	20·550					19·000	18·900	18·850	18·660
17·0	19·050	19·340	19·720	20·150	20·550					19·980	18·875	18·840	18·670
22·0	19·050	19·400	19·790	20·250	20·550					18·950	18·870	18·810	18·650
27·0	19·080	19·420	19·830	20·310	20·550					18·920	18·870	18·810	18·640
32·0	19·070	19·470	19·850	20·350	20·550	20·350	20·015	19·600	19·270	18·910	18·900	18·790	18·600
37·0	19·080	19·490	19·880	20·400	20·550					18·900	18·900	18·790	18·570
42·0	19·080	19·505	19·900	20·450	20·550					18·905	18·890	18·770	18·550
47·0	19·090	19·550	19·950	20·450	20·550					18·910	18·890	18·750	18·550
52·0	19 110	19·590	19·950	20·450	20·460					18·960	18·890	18·750	18·550
57·0	19·170	19·600	20·050	20·450	20·450					18·930	18·890	18·750	18·565
Therm.	81°0	81°1	82°0	82°8	83°7	84°0	84°8	85°0	85°3	85°7	85°3	84°6	83°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	2·41·00	2·41·80	2·07·00	1·17·15	0·35·50					1·14·20	1·15·85	1·20·00	1·29·90
8·0	2·41·00	2·34·50	2·01·40	1·17·15	0·35·50					1·14·20	1·15·85	1·20·00	1·29·90
13·0	2·41·00	2·34·50	2·01·40	1·10·20	0·35·50					1·14·20	1·15·85	1·20·00	1·29·90
18·0	2·47·60	2·34·50	2·01·40	1·10·20	0·35·50					1·14·20	1·15·85	1·20·00	1·29·90
23·0	2·47·60	2·25·30	1·42·10	0·49·40	0·35·50					1·14·20	1·15·85	1·20·00	1·29·90
28·0	2·47·60	2·25·30	1·42·10	0·49·40	0·30·65	0·38·85	0·48·00	1·08·60	1·03·45	1·14·20	1·15·85	1·20·00	1·29·90
33·0	2·47·60	2·20·10	1·33·50	0·49·40	0·30·65					1·14·20	1·15·85	1·20·00	1·29·90
38·0	2·47·60	2·20·10	1·33·50	0·44·50	0·30·65					1·17·30	1·15·85	1·20·00	1·29·90
43·0	2·47·60	2·16·20	1·27·15	0·44·50	0·30·65					1·15·85	1·15·85	1·20·00	1·29·90
48·0	2·47·60	2·12·20	1·19·45	0·44·50	0·30·65					1·15·85	1·15·85	1·29·90	1·29·90
53·0	2·41·80	2·12·20	1·19·45	0·35·50	0·30·65					1·15·85	1·15·85	1·29·90	1·29·90
58·0	2·41·80	2·07·00	1·17·15	0·35·50	0·34·05	0·38·85	1·03·30	1·03·45	1·14·20	1·15·85	1·20·00	1·29·90	1·29·90
Therm.	82°7	82°1	82°4	82°7	83°0	83°6	84°2	84°6	85°3	86°0	85°9	86°1	84°5

TERM HOUR OBSERVATIONS ON THE 31ST AUGUST AND 1ST SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M.S.												
0·0	17'48	17'34	16'40	14'78	12'90	11'85	12'11	13'90	14'09	14'93	14'47	13'52
5·0	17·53	17·34	16·30	14·52					14·20	14·88	14·47	13·57
10·0	17·53	17·18	16·09	14·47					14·25	14·73	14·30	13.57
15·0	17·53	17·08	16·04	14·35					14·47	14·78	14·14	13·68
20·0	17·60	17·08	15·92	14·14					14·47	14·78	13·99	13·78
25·0	17·60	17·06	15·71	13·94					14·52	14·73	13·94	13·88
30·0	17·53	17·02	15·56	13·83	12·37	11·85	12·37	13·42	14·67	14·78	13·94	13·88
35·0	17·48	16·92	15·45	13·68					14·73	14·73	13·94	13·94
40·0	17·53	16·82	15·25	13·42					14·73	14·73	13·94	13·94
45·0	17·48	16·61	15·14	13·21					14.73	14·67	13·94	13·94
50·0	17·34	16·56	14·99	13·00					14.73	14·52	13·83	13·94
55·0	17·34	16·50	14·99	12·90					14·88	14·47	13·68	13·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	26·700	27·000	27·450	27·990	28·300	27·800	27·320	26·820	26·510	26·400	26·500	26·520
7·0	26·700	27·030	27·490	28·000					26·500	26·400	26·500	26·500
12·0	26·710	27·090	27·500	28·000					26·500	26·400	26·540	26·490
17·0	26·750	27·100	27·530	28·030					26·460	26·400	26·600	26·430
22·0	26·800	27·150	27·690	28·000					26·450	26·400	26·650	2·6400
27·0	26·800	27·200	27·740	28·020					26·420	26·400	26·640	26·350
32·0	26·830	27·230	27·800	28·000	28·015	27·650	27·020	26·630	26·400	26·420	26·630	26·320
37·0	26·850	27·24	27·860	28·090					26·400	26·430	26·600	26·300
42·0	26·870	27·300	27·900	28·140					26·400	26·420	26·600	26·300
47·0	26·900	27·300	27·930	28·230					26·450	26·450	26·590	26·300
52·0	26·940	27·330	27·940	28·270					26·490	26·500	26·550	26·300
57·0	26·970	27·390	27·970	28·300					26·470	26·500	26·540	26·300
Therm.	78°4	79°3	79°8	80°2	80°3	81°8	82°0	82°4	82°4	82°1	82°0	80°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48'35	1°48'49	1°48'40	1°48'47	1°48'13	1°48'35	1°48'17	1°47'22	1°48'00	1°48'23	1°48'34	1°48'38
8·0	1·48·42	1·48·42	1·48·40	1·48·27					1·48·89	1·48·28	1·48·27	1·48·38
13·0	1·48·42	1·48·29	1·48·54	1·48·27					1·48·14	1·48·37	1·48·20	1·48·39
18·0	1·48·49	1·48·22	1·48·54	1·48·03					1·48·13	1·48·37	1·48·20	1·48·38
23·0	1·48·49	1·48·15	1·48·34	1·47·86					1·48·13	1·48·37	1·48·20	1·48·38
28·0	1·48·56	1·48·15	1·48·01	1·48·00					1·48·23	1·48·37	1·48·20	1·48·44
33·0	1·48·56	1·48·22	1·48·15	1·48·29	1·48·44	1·48·18	1·48·22	1·48·18	1·48·20	1·48·37	1·48·14	1·48·51
38·0	1·48·56	1·48·37	1·48·29	1·48·09					1·48·27	1·48·40	1·48·07	1·48·58
43·0	1·48·56	1·48·51	1·48·23	1·48·24					1·48·27	1·43·40	1·48·25	1·48·51
48·0	1·48·49	1·48·65	1·48·03	1·48·53					1·48·27	1·48·33	1·48·15	1·48·44
53·0	1·48·63	1·48·22	1·48·78	1·48·18					1·48·30	1·48·27	1·48·22	1·48·51
58·0	1·48·63	1·48·32	1·48·32	1·48·01					1·48·30	1·48·41	1·48·24	1·48·43

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′966	16′926	16′447	14′936	12′876	10′471	8′755	8′883	9′853	11′845	12′944	13′562	13′150
5·0	16·034	16·996	16·172	14·762	12·533					11·913	12·944	13·562	13·219
10·0	16·172	17·138	16·102	14·592	12·533					11·981	13·047	13·630	13·287
15·0	16·172	17·138	15·996	14·523	12·256					12·188	13·115	13·768	13·287
20·0	16·309	16·996	15·931	14·351	12·188					12·326	13·115	13·768	13·355
25·0	16·378	16·926	15·897	14·076	11·845					12·533	13·115	13·700	13·355
30·0	16·447	16·858	15·828	13·906	11·501	9·441	8·926	9·029	10·744	12·669	13·253	13·630	13·355
35·0	16·584	16·789	15·623	13·630	11·501					12·738	13·219	13·562	13·355
40·0	16·584	16·828	15·623	13·493	11·157					12·738	13·287	13·425	13·219
45·0	16·653	16·789	15·450	13·287	11·088					12·738	13·219	13·355	13·219
50·0	16·653	16·789	15·280	13·150	10·814					12·806	13·287	13·253	13·219
55·0	16·789	16·515	15·108	12·876	10·471					13·013	13·562	13·219	13·219

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·350	19·250	19·540	20·050	20·350	20·450	20·450	20·000	19·600	19·150	18·900	18·740	18·800
7·0	19·390	19·260	19·600	20·050	20·350					19·150	18·810	18·710	18·750
12·0	19·410	19·310	19·670	20·150	20·350					19·115	18·800	18·700	18·750
17·0	19·410	19·360	19·760	20·150	20·350					19·120	18·780	18·710	18·750
22·0	19·400	19·350	19·750	20·150	20·450					19·080	18·790	18·840	18·740
27·0	19·320	19·350	19·750	20·250	20·400					19·070	18·770	18·930	18·750
32·0	19·295	19·395	19·810	20·300	20·450	20·450	20·150	19·770	19·370	19·050	18·740	18·950	18·790
37·0	19·260	19·420	19·940	20·250	20·550					19·040	18·750	18·920	18·770
42·0	19·260	19·465	19·950	20·250	20·500					19·040	18·750	18·900	18·780
47·0	19·290	19·510	20·050	20·250	20·500					19·040	18·750	18·900	18·810
52·0	19·330	19·550	20·050	20·350	20·450					19·000	18·730	18·910	18·830
57·0	19·315	19·510	20·050	20·330	20·450					18·900	18·740	18·900	18·830
Therm.	80°6	81°0	81°6	82°0	83°0	83°7	84°1	85°1	85°0	84°0	84°0	83°1	82°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·29·30	3·18·00	2·30·80	2·02·00	1·09·60					2·23·30	2·24·50	2·22·65	2·06·00
8·0	3·29·30	3·12·60	2·21·80	2·02·00	1·09·60					2·23·30	2·26·60	2·22·65	2·08·00
13·0	3·29·30	3·12·60	2·21·80	1·35·50	1·09·60					2·23·30	2·26·60	2·22·65	2·17·20
18·0	3·29·30	3·05·70	2·21·80	1·35·50	1·09·60					2·23·30	2·26·60	2·22·65	2·17·20
23·0	3·29·30	3·05·70	2·14·00	1·35·50	1·09·60					2·25·75	2·26·60	2·15·90	2·17·20
28·0	3·29·30	2·46·60	2·14·00	1·35·50	1·09·60	1·07·70	1·27·70	1·32·50	2·08·40	2·23·80	2·22·65	2·15·90	2·17·20
33·0	3·29·30	2·46·60	2·06·60	1·25·50	1·09·60					2·23·30	2·22·65	2·15·90	2·17·20
38·0	3·22·10	2·40·70	2·06·60	1·25·50	1·09·60					2·23·30	2·22·65	2·15·90	2·17·20
43·0	3·22·10	2·40·70	2·02·00	1·25·50	1·09·60					2·22·40	2·22·65	2·08·00	2·11·10
48·0	3·22·10	2·37·60	2·02·00	1·16·50	1·09·60					2·22·40	2·22·65	2·08·00	2·11·10
53·0	3·22·10	2·30·80	2·02·00	1·16·50	1·09·60					2·24·50	2·22·65	2·08·00	2·11·10
58·0	3·18·00	2·30·80	2·02·00	1·09·60	1·02·10	1·21·90	1·29·40	2·03·80	2·20·00	2·24·50	2·22·65	2·08·00	2·11·10
Therm.	82°4	82°0	82°0	82°3	82°7	83°5	84°0	84°6	84°6	84°5	83°7	83°5	83°3

TERM HOUR OBSERVATIONS ON THE 2nd AND 3rd SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′60	17′08	15′56	13′42	11′27	9′44	9′76	10′81	12′37	13′68	14′20	13′78
5·0	17·60	16·97	15·51	13·21					12·37	13·73	14·20	13·88
10·0	17·65	16·71	15·40	12·90					12·68	13·78	14·14	13·94
15·0	17·75	16·66	15·14	12·90					12·83	13·83	14·20	13·94
20·0	17·60	16·56	14·99	12·63					12·90	13·94	14·20	13·94
25·0	17·60	16·56	14·78	12·47					12·90	13·94	14·20	13·94
30·0	17·53	16·59	14·47	12·37	9·76	9·76	9·76	11·59	13·16	13·94	14·20	13·94
35·0	17·34	16·30	14·35	12·11					13·31	13·94	14·14	13·99
40·0	17·39	16·19	14·20	11·79					13·42	13·99	13·99	13·94
45·0	17·34	16·04	13·94	11·64					13·42	14·14	13·94	13·94
50·0	17·34	15·92	13·68	11·43					13·42	14·20	13·88	13·88
55·0	17·08	15·77	13·52	11·33					13·57	14·20	13·73	13·94

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	26·750	26·900	27·500	27·750	27·900	27·950	27·400	27·120	26·900	26·540	26·300	26·480
7·0	26·750	26·960	27·500	27·800					26·900	26·470	26·300	26·490
12·0	26·780	27·040	27·540	27·800					26·850	26·420	26·290	26·500
17·0	26·800	27·120	27·570	27·850					26·820	26·400	26·340	26·460
22·0	26·790	27·150	27·590	27·880					26·800	26·400	29·390	26·490
27·0	26·780	27·170	27·600	27·860					26·800	26·350	26·420	26·500
32·0	26·800	27·190	27·600	27·890	28·000	27·610	27·390	26·980	26·790	26·350	26·460	26·500
37·0	26·800	27·280	27·600	27·940					26·750	26·310	26·500	26·500
42·0	26·870	27·350	27·620	28·000					26·730	26·300	26·500	29·500
47·0	26·900	27·400	27·690	27·930					26·700	26·300	26·470	26·500
52·0	26·900	27·430	27·740	27·940					26·660	26·300	26·500	26·520
57·0	26·890	27·500	27·800	27·900					26·600	26·300	26·540	26·510
Therm.	78°0	78°4	79°3	80°0	80°2	81°2	82°2	82°0	81°2	80°1	80°0	80°0

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
3·0	1°48′27	1°48′22	1°48′01	1°47′81	1°48′02	1°48′15	1°48′27	1°48′09	1°47′93	1°48′44	1°48′20	1°48′08
8·0	1·48·34	1·48·08	1·47·97	1·47·89					1·47·99	1·48·44	1·48·20	1·48·15
13·0	1·48·47	1·48·16	1·47·94	1·48·32					1·48·06	1·48·41	1·48·27	1·48·07
18·0	1·48·47	1·48·17	1·48·16	1·48·20					1·48·13	1·48·19	1·48·41	1·48·07
23·0	1·48·34	1·48·27	1·48·28	1·48·27					1·48·12	1·48·05	1·48·41	1·48·14
28·0	1·48·41	1·48·39	1·48·15	1·48·07					1·48·32	1·48·05	1·48·34	1·48·14
33·0	1·48·34	1·48·46	1·48·13	1·47·87	1·48·11	1·48·25	1·47·59	1·47·97	1·48·46	1·48·05	1·48·27	1·48·14
38·0	1·48·27	1·48·41	1·47·99	1·48·15					1·48·53	1·48·03	1·48·20	1·48·14
43·0	1·48·45	1·48·40	1·47·99	1·48·10					1·48·39	1·48·00	1·48·21	1·48·00
48·0	1·48·27	1·48·23	1·47·93	1·48·32					1·48·39	1·47·93	1·48·14	1·48·00
53·0	1·48·42	1·48·20	1·47·79	1·48·04					1·48·46	1·47·86	1·48·03	1·48·15
58·0	1·48·29	1·48·17	1·47·66	1·47·85					1·48·51	1·48·20	1·48·15	1·48·00

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16·034	17·201	16·653	15·004	13·219	10·882	9·990	9·853	11·259	12·944	14·249	14·592	13·906
5·0	16·309	17·270	16·447	14·936	12·876					13·287	14·249	14·592	13·871
10·0	16·274	17·270	16·549	14·936	12·601					13·406	14·386	14·523	13·837
15·0	16·309	17·064	16·378	14·928	12·601					13·493	14·454	14·454	13·768
20·0	16·274	16·996	16·309	14·420	12·256					13·630	14·454	14·454	13·562
25·0	16·721	16·858	16·136	14·249	12·188					13·630	14·867	14·454	13·562
30·0	16·926	17·064	15·966	14·249	11·981	9·990	9·785	10·471	12·119	13·734	14·986	14·454	13·562
35·0	16·858	17·064	15·862	14·249	11·639					13·871	14·986	14·454	13·493
40·0	16·996	16·926	15·691	13·871	11·707					13·974	14·867	14·454	13·425
45·0	17·064	17·133	15·897	13·562	11·431					14·042	14·798	14·179	13·425
50·0	17·064	16·858	15·280	13·562	11·293					14·042	14·728	14·042	13·562
55·0	17·064	16·856	15·230	13·493	11·088					14·076	14·728	13·974	13·355

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·210	18·950	19·010	19·650	19·950	20·190	20·140	20·000	19·700	19·370	19·150	18·930	18·750
7·0	19·230	18·950	19·110	19·650	20·000					19·380	19·130	18·910	18·740
12·0	19·200	18·950	19·150	19·750	20·040					19·380	19·065	18·910	18·750
17·0	19·190	18·960	19·175	19·750	20·000					19·305	19·010	18·870	18·750
22·0	19·160	19·000	19·245	19·750	20·000					19·305	18·945	18·850	18·820
27·0	19·120	19·010	19·305	19·850	19·990					19·300	18·900	18·850	18·800
32·0	19·075	19·080	19·355	19·800	20·050	20·170	20·090	19·850	19·560	19·290	18·950	18·760	18·840
37·0	19·050	19·140	19·380	19·850	20·070					19·250	18·950	18·750	18·790
42·0	19·020	19·150	19·400	19·900	20·070					19·230	18·950	18·700	18·820
47·0	19·940	19·170	19·500	19·900	20·110					19·290	18·950	18·720	18·825
52·0	19·000	19·170	19·500	19·900	20·130					19·230	18·950	18·720	18·780
57·0	19·020	19·050	19·650	19·950	20·150					19·210	18·930	18·740	18·750
Therm.	79°6	79°2	79°1	80°2	81°0	82°2	81°9	82°9	83°2	83°0	83°0	82°4	81°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·31·00	3·24·00	3·05·10	2·08·40	1·33·00					2·34·00	2·34·00	2·34·00	2·21·40
8·0	3·31·00	3·24·00	3·05·10	2·08·40	1·26·45					2·34·00	2·34·00	2·34·00	2·21·40
13·0	3·31·00	3·24·00	2·46·30	2·08·40	1·26·45					2·34·00	2·34·00	2·26·50	2·21·40
18·0	3·31·00	3·24·00	2·46·30	2·08·40	1·26·45					2·34·00	2·34·00	2·26·50	3·21·40
23·0	3·31·00	3·24·00	2·36·50	2·08·40	1·26·45					2·34·00	2·34·00	2·26·50	2·12·20
28·0	3·31·00	3·15·80	2·31·40	2·08·40	1·21·40	1·22·00	1·36·00	2·17·50	2·25·10	2·34·00	2·34·00	2·26·50	2·12·20
33·0	3·31·00	3·15·80	2·26·20	2·08·40	1·21·40					2·34·00	2·34·00	2·26·50	2·12·20
38·0	3·31·00	3·15·80	2·26·30	2·02·60	1·20·00					2·34·00	2·34·00	2·26·50	2·12·20
43·0	3·31·00	3·15·80	2·26·30	2·02·60	1·20·00					2·34·00	2·34·00	2·26·50	2·12·20
48·0	3·31·00	3·15·80	2·17·65	2·02·60	1·19·00					2·34·00	2·34·00	2·26·50	2·12·20
53·0	3·31·00	3·05·10	2·17·65	1·43·00	1·17·50					2·34·00	2·34·00	2·21·40	2·12·20
58·0	3·24·00	3·05·10	2·06·40	1·33·00	1·17·50	1·30·40	0·29·85	2·25·10	2·34·00	2·34·00	2·34·00	2·21·40	2·12·20
Therm.	81°3	80°5	80°1	80°5	81°5	81°5	81°7	82°2	82°7	82°7	83°1	82°7	82°9

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17'60	17'34	15'71	13'99	11'64	10'81	10'081	12'37	13'88	14'99	15'40	14'47
5·0	17·60	17·28	15·66	13'73					13·94	14·99	15·25	14·47
10·0	17·60	17·13	15·56	13·42					13·99	15·19	15·25	14·47
15·0	17·60	17·08	15·51	13·26					14·20	15·25	15·14	14·47
20·0	17·60	17·08	15·25	12·95					14·30	15·45	15·09	14·47
25·0	17·60	16·82	15·09	12·90					14·40	15·51	14·99	14·47
30·0	17·60	16·66	14·99	12·78	11·48	10·54	11·38	13·00	14·47	15·51	14·99	14·35
35·0	17·60	16·56	14·83	12·42					14·52	15·51	15·04	14·20
40·0	17·60	16·50	14·62	12·37					14·78	15·51	15·04	14·20
45·0	17·60	16·35	14·47	12·11					14·73	15·51	14·99	14·14
50·0	17·60	16·14	14·35	11·90					14·88	15·51	14·78	14·04
55·0	17·39	15·97	14·14	11·85					14·93	15·51	14·67	14·20

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	26·250	26·190	26·720	26·950	27·380	27·300	27·120	26·900	26·600	26·200	25·880	25·630
7·0	26·240	26·180	26·730	27·060					26·600	26·150	25·840	25·650
12·0	26·240	26·210	26·820	27·100					26·560	26·090	25·840	25·680
17·0	26·270	26·200	26·850	27·100					26·500	26·000	25·810	25·700
22·0	26·250	26·260	26·890	27·120					26·420	25·990	25·800	25·700
27·0	26·280	26·340	26·880	27·100					26·400	25·950	25·800	25·700
32·0	26·290	26·410	26·890	27·150	27·300	27·200	27·170	26·800	26·380	25·900	25·750	25·700
37·0	26·310	26·480	26·870	27·190					26·350	25·900	25·690	25·700
42·0	26·350	26·500	26·850	27·200					26·300	25·930	25·600	25·750
47·0	26·380	26·580	26·900	27·240					26·280	25·950	25·600	25·780
52·0	26·390	26·640	26·900	27·290					26·260	25·900	25·600	25·740
57·0	26·260	26·700	26·930	27·320					26·210	25·850	25·600	25·700
Therm.	76°0	76°0	77°2	77°8	78°2	78°5	79°2	79°9	79°8	79°9	79°8	79°3

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°48'54	1°48'28	1°47'92	1°47'86	1°47'97	1°48'23	1°47'94	1°47'77	1°48'87	1°48'32	1°48'09	1°48'27
8·0	1·48·61	1·48·08	1·48·01	1·47·95					1·48·22	1·48·32	1·48·23	1·48·37
13·0	1·48·61	1·48·18	1·48·15	1·47·96					1·48·19	1·48'32	1·48·45	1·48·34
18·0	1·48·40	1·48·16	1·48·08	1·48·10					1·48·13	1·48·38	1·48·67	1·48·27
23·0	1·48·34	1·48·22	1·47·77	1·47·91					1·48·27	1·48·23	1·48·67	1·48·06
28·0	1·48·20	1·48·05	1·47·89	1·47·98					1·48·13	1·48·51	1·48·52	1·48·20
33·0	1·48·40	1·48·03	1·48·18	1·47·92	1·48·23	1·48·32	1·47·99	*1·44·16	1·48·23	1·48·44	1·48·52	1·48·20
38·0	1·48·40	1·47·92	1·48·47	1·47·72					1·48·23	1·48·29	1·48·38	1·48·27
43·0	1·48·27	1·47·89	1·48·23	1·47·93					1·48·33	1·48·22	1·48·38	1·48·21
48·0	1·48·47	1·48·89	1·47·92	1·47·80					1·48·40	1·48·15	1·48·54	1·48·21
53·0	1·48·20	1·48·06	1·48·06	1·48·09					1·48·26	1·48·08	1·48·40	1·48·34
58·0	1·48·34	1·48·20	1·47·99	1·48·18					1·48·30	1·48·08	1·48·33	1·48·14

* Instrument disturbed.

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15'966	16'658	15'897	14'660	12'635	11'639	11'845	11'707	12'738	14'317	15'074	14'660	13'355
5·0	16·034	16·653	15·760	14·592	12·533					14·557	15·038	14·528	13·355
10·0	15·966	16·789	15·623	14·249	12·533					14·660	15·074	14·523	13·355
15·0	16·309	16·789	15·623	14·249	12·533					14·728	15·142	14·386	13·321
20·0	16·309	16·721	15·623	14·179	12·188					14·798	15·142	14·249	13·287
25·0	16·515	16·653	15·553	14·076	12·188					14·936	15·142	13·974	13·287
30·0	16·653	16·447	15·485	13·700	12·015	11·569	11·845	12·050	13·562	14·936	15·128	13·871	13·287
35·0	16·721	16·378	15·211	13·630	12·188					15·004	15·074	13·700	13·287
40·0	16·721	16·274	15·142	13·493	12·188					15·004	15·004	13·700	13·287
45·0	16·721	16·240	14·936	13·219	11·845					15·038	15·004	13·630	13·287
50·0	16·721	16·172	14·936	12·876	11·569					15·004	14·798	13·562	13·287
55·0	16·721	16·034	14·936	12·772	11·501					15·074	14·728	13·425	13·287

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·350	19·570	20·080	20·450	20·800	20·750	20·650	20·390	20·180	20·000	19·800	19·590	19·470
7·0	19·350	19·695	20·190	20·450	20·750					20·000	19·800	19·560	19·410
12·0	19·350	19·750	20·240	20·450	20·750					19·990	19·800	19·550	19·390
17·0	19·380	19·710	20·250	20·550	20·750					19·970	19·780	19·540	19·410
22·0	19·400	19·800	20·310	20·550	20·750					19·950	19·740	19·550	19·410
27·0	19·390	19·775	20·350	20·550	20·750					19·930	19·710	19·520	19·430
32·0	19·400	19·900	20·420	20·550	20·650	20·700	20·515	20·350	20·100	19·900	19·700	19·510	19·440
37·0	19·430	19·865	20·400	20·650	20·650					19·900	19·690	19·500	19·470
42·0	19·415	19·925	20·390	20·650	20·700					19·880	19·650	19·490	19·480
47·0	19·435	20·000	20·350	20·650	20·700					19·870	19·600	19·450	19·480
52·0	19·425	19·980	20·450	20·690	20·750					19·930	19·600	19·450	19·480
57·0	19·515	20·015	20·450	20·750	20·750					19·810	19·590	19·470	19·480
Therm.	80°0	79°4	79°8	80°0	79°0	80°0	80°0	79°8	80°2	80°2	80°0	79°7	79°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	3·11·50	2·30·40	1·40·80	0·47·25	0·16·00					2·41·50	2·27·80	1·30·20	1·07·30
8·0	3·11·50	2·24·50	1·28·60	0·47·25	0·16·00					2·44·60	2·23·30	1·20·80	1·16·60
13·0	3·05·50	2·24·50	1·28·50	0·32·40	0·16·00					2·44·60	2·19·50	1·20·80	1·16·60
18·0	3·05·50	2·11·30	1·28·50	0·32·40	0·16·00					2·42·15	2·11·80	1·15·20	1·16·60
23·0	3·05·50	2·11·30	1·16·20	0·32·40	0·16·00					2·42·15	2·07·60	1·15·20	1·08·20
28·0	3·05·50	2·11·30	1·16·20	0·32·40	0·20·65	0·24·80	1·20·35	1·41·35	2·32·75	2·38·60	2·05·80	1·15·20	1·08·20
33·0	3·05·50	2·00·60	1·16·20	0·32·40	0·20·65					2·36·25	1·48·90	1·07·30	1·08·20
38·0	2·45·10	2·00·60	1·10·40	0·23·40	0·30·50					2·36·25	1·48·90	1·07·30	1·08·20
43·0	2·45·10	2·00·60	1·10·40	0·23·40	0·30·50					2·31·85	1·48·90	1·07·30	1·08·20
48·0	2·45·10	2·00·60	1·10·40	0·23·40	0·30·50					2·21·85	1·36·00	1·07·30	1·08·20
53·0	2·45·10	1·40·80	0·47·25	0·23·40	0·30·50					2·27·80	1·36·00	1·07·30	1·08·20
58·0	2·30·40	1·40·80	0·47·25	0·16·00	0·30·50	0·49·50	1·35·95	2·08·80	2·41·50	2·27·80	1·30·20	1·07·30	1·00·60
Therm.	81°5	80°5	80°4	80°5	79°7	79°0	80°5	80°3	80°3	80°4	80°3	80°0	80°0

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17·08	16·56	15·09	13·00	12·11	12·37	12·37	13·52	15·04	15·82	15·25	13·94
5·0	17·18	16·45	14·99	12·90					15·19	15·82	15·14	13·94
10·0	17·34	16·30	14·83	12·90					15·30	15·87	14·04	13·94
15·0	17·28	16·30	14·78	12·83					15·45	15·87	14·99	13·94
20·0	17·28	16·19	14·47	12·78					15·51	15·87	14·88	13·94
25·0	17·08	16·04	14·47	12·78					15·56	15·82	14·73	13·94
30·0	17·08	16·04	14·20	12·63	12·11	12·37	12·90	14·47	15·66	15·77	14·47	13·88
35·0	16·97	15·92	13·94	12·63					15·77	15·56	14·35	13·94
40·0	16·82	15·77	13·83	12·42					15·77	15·51	14·20	13·94
45·0	16·66	15·61	13·57	12·37					15·77	15·51	14·14	13·88
50·0	16·56	15·51	13·42	12·37					15·77	15·45	13·99	13·94
55·0	16·56	15·30	13·36	12·16					15·77	15·30	13·94	13·94

SMALL HORIZONTAL FORCE *(in Scale. Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	26·500	27·060	27·500	28·020	27·810	27·700	27·390	26·950	26·850	26·550	26·490	26·400
7·0	26·500	27·100	27·580	28·000					26·830	26·520	26·450	26·410
12·0	26·540	27·190	27·600	28·000					26·800	26·500	26·420	26·400
17·0	26·600	27·230	27·670	28·000					26·780	26·480	26·400	26·400
22·0	26·670	27·300	27·730	27·940					26·730	26·450	26·420	26·400
27·0	26·690	27·350	27·780	27·890					26·700	26·480	26·400	26·410
32·0	26·720	27·390	27·860	27·830	27·850	27·630	27·110	26·900	26·700	26·490	26·400	26·400
37·0	26·799	27·390	27·900	27·800					26·690	26·500	26·400	26·400
42·0	26·850	27·400	27·920	27·800					26·650	26·500	26·400	26·400
47·0	26·900	27·380	27·990	27·800					26·630	26·510	26·380	26·400
52·0	26·900	27·400	28·010	27·820					26·620	26·500	26·400	26·400
57·0	26·970	27·440	28·050	27·850					26·590	26·500	26·400	26·400
Therm.	76°4	77°0	77°3	76°0	77°0	77°2	76°6	77°4	77°6	77°8	77°2	76°4

INDUCTION CORRECTED FOR DECLINATION.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
3·0	1°48·42	1°48·53	1°48·16	1°48·14	1°48·44	1°47·86	1°48·08	1°48·10	1°48·39	1°48·28	1°48·01	1°48·00
8·0	1·48·42	1·48·54	1·48·23	1·48·18					1·48·49	1·48·25	1·48·02	1·48·00
13·0	1·48·56	1·48·40	1·48·03	1·48·32					1·48·30	1·48·28	1·48·16	1·48·00
18·0	1·48·56	1·48·54	1·48·18	1·48·32					1·48·23	1·48·35	1·48·17	1·47·96
23·0	1·48·49	1·48·54	1·48·25	1·47·98					1·48·15	1·48·35	1·48·32	1·47·93
28·0	1·48·28	1·48·47	1·48·30	1·47·98					1·48·15	1·48·35	1·48·19	1·47·93
33·0	1·48·22	1·48·42	1·48·06	1·47·96	1·48·22	1·47·79	1·48·58	1·48·20	1·48·15	1·48·34	1·48·23	1·48·07
38·0	1·48·29	1·48·28	1·47·99	1·48·27					1·48·21	1·48·28	1·48·06	1·48·07
43·0	1·48·33	1·48·21	1·48·13	1·48·27					1·48·21	1·48·21	1·48·20	1·48·07
48·0	1·48·44	1·48·15	1·48·15	1·48·07					1·48·25	1·48·21	1·48·27	1·48·07
53·0	1·48·66	1·48·15	1·48·09	1·47·94					1·48·21	1·48·01	1·48·20	1·48·07
58·0	1·48·66	1·48·29	1·48·13	1·48·15					1·48·28	1·48·06	1·48·07	1·48·07

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	18·025	18·644	17·544	14·592	12·533	10·814	9·441	10·265	11·913	14·111	15·176	15·142	13·355
5·0	17·990	18·644	17·407	14·523	12·256					14·249	15·245	15·004	13·355
10·0	18·025	18·644	17·270	14·249	11 815					14·386	15·280	14·798	13·287
15·0	18·093	18·644	16·926	13·974	11·913					14·454	15·280	14·694	13·287
20·0	15·093	18·575	16·653	13·906	12·119					14·592	15·314	14·660	13·287
25·0	18·231	18·575	16·447	13·837	11·879					14·728	15·314	14·557	13·287
30·0	18·231	18·334	16·102	13·562	11·776	10·128	9·785	10·951	12·876	14·798	15·314	14·386	13·287
35·0	18·231	18·231	15·966	13·219	11·535					14·867	15·348	14·042	13·253
40·0	18·369	18·025	15·692	13·150	11·157					14·936	15·348	13·906	13·150
45·0	18·507	17·956	15·280	12·876	11·157					14·970	15·348	13·906	13·219
50·0	18·575	17·819	14·936	12·601	11·157					15·074	15·280	13·768	13·150
55·0	18·644	17·682	14·936	12·533	10·814					15·142	15·211	13·630	13·150

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·255	18·950	19·080	19·515	19·900	20·100	20·150	19·990	19·700	19·440	19·230	19·250	19·410
7·0	19·250	18·980	19·040	19·550	19·950					19·400	19·210	19·280	19·410
12·0	19·250	19·000	19·060	19·550	19·950					19·400	19·200	19·290	19·410
17·0	19·150	19·020	19·100	19·600	19·950					19·390	19·200	19·300	19·400
22·0	19·110	19·000	19·100	19·650	19·950					19·350	19·200	19·300	19·410
27·0	19·060	18·990	19·170	19·700	20·000					19·320	19·200	19·300	19·380
32·0	19·030	18·980	19·190	19·750	20·050	20·100	20·100	19·890	19·600	19·300	19·200	19·320	19·350
37·0	19·010	18·920	19·250	19·800	20·050					19·300	19·200	19·480	19·380
42·0	19·000	18·960	19·300	19·800	20·075					19·300	19·210	19·500	19·380
47·0	19·000	19·000	19·350	19 800	20·100					19·300	19·210	19·400	19·390
52·0	19·000	19·040	19·450	19·850	20·100					19·280	19·210	19·400	19·350
57·0	18·970	19·060	19·500	19·900	20·100					19·250	19·250	19·400	19·350
Therm.	77°4	77°2	77°7	78°4	79°0	79°8	80°7	81°0	81°0	80°8	80°3	79°5	79°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·05·50	3·10·70	1·29·80	−0·27·00	−1·12·45					2·33·70	2·34·60	1·49·40	1·18·00
8·0	4·05·50	2·46·50	1·09·90	−0·27·00	−1·12·45					2·33·70	2·32·65	1·49·40	1·25·90
13·0	4·05·50	2·38·60	1·00·00	−0·27·00	−1·07·80					2·33·70	2·29·50	1·36·60	1·25·90
18·0	4·00·20	2·30·80	0·35·00	−1·02·05	−1·07·80					2·36·50	2·26·30	1·36·60	1·25·90
23·0	4·00·20	2·26·10	0·35·00	−1·02·05	−1·07·80					2·36·50	2·26·30	1·36·60	1·25·90
28·0	4·00·20	2·26·10	0·15·00	−1·20·40	−1·07·80	−1·07·80	−3·01·00	1·11·20	2·00·00	2·36·60	2·21·60	1·27·70	1·33·90
33·0	3·34·30	2·09·60	0·15·00	−1·20·40	−1·07·80					2·36·50	2·21·60	1·27·70	1·33·90
38·0	3·34·30	2·09·60	−0·00·10	−1·20·40	−1·07·80					2·36·50	2·21·60	1·18·00	1·33·90
43·0	3·28·50	1·45·50	−0·00·10	−1·20·40	−1·07·80					2·36·50	2·21·60	1·18·00	1·33·90
48·0	3·28·50	1·45·50	−0·17·45	−1·20·40	−1·07·80					2·34·60	2·08·80	1·18·00	1·33·90
53·0	3·18·60	1·29·80	−0·17·45	−1·20·40	−1·07·80					2·34·60	2·08·80	1·18·00	1·33·90
58·0	3·10·70	1·29·80	−0·27·00	−1·20·40	−1·07·80	−0·46·00	−0·37·70	1·36·55	2·33·70	2·34·60	1·49·40	1·18·00	1·33·90
Therm.	79°5	78°5	78°4	78°5	79°0	79°5	80°0	80°6	81°0	80°7	80°3	79°9	80°0

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	18·91	17·96	15·09	12·90	11·33	10·02	10·91	12·37	14·40	15·51	15·30	13·83
5·0	18·96	17·86	14·83	12·68					14·47	15·51	15·25	13·68
10·0	18·96	17·53	14·73	12·63					14·62	15·51	14·99	13·68
15·0	19·01	17·18	14·52	12·42					14·78	15·51	14·88	13·52
20·0	19·01	17·02	14·47	12·37					14·88	15·51	14·83	13·47
25·0	18·91	16·82	14·25	12·31					14·99	15·51	14·67	13·42
30·0	18·70	16·56	13·99	12·11	10·54	9·76	11·64	13·42	15·14	15·51	14·47	13·42
35·0	18·65	16·45	13·73	11·85					15·26	15·51	14·30	13·42
40·0	18·54	16·09	13·42	11·79					15·25	15·51	14·09	13·47
45·0	18·23	15·92	13·36	11·64					15·25	15·51	13·94	13·42
50·0	18·13	15·61	13·10	11·59					15·40	15·45	13·94	13·42
55·0	18·13	15·30	12·95	11·48					15·45	15·45	13·94	13·42

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	25·480	25·620	26·060	26·500	26·730	26·910	26·720	26·550	26·200	25·930	26·140	26·250
7·0	25·450	25·580	26·100	26·530					26·200	26·000	26·150	26·280
12·0	25·450	25·590	26·130	26·520					26·200	26·010	26·120	26·250
17·0	25·480	25·600	26·190	26·550					26·140	26·001	26·130	26·250
22·0	25·450	25·640	26·210	26·600					26·100	26·000	26·180	26·250
27·0	25·470	25·660	26·250	26·630					26·100	26·040	26·150	26·260
32·0	25·500	25·700	26·260	26·670	26·75	26·900	26·600	26·440	26·090	26·050	26·150	26·270
37·0	25·500	25·790	26·320	26·700					26·090	26·050	26·180	26·250
42·0	25·500	25·800	26·390	26·700					26·050	26·080	26·200	26·240
47·0	25·520	25·900	26·420	26·700					26·020	26·070	26·200	26·210
52·0	25·590	25·980	26·470	26·720					26·020	26·080	26·220	26·200
57·0	25·600	26·020	26·490	26·730					26·000	26·100	26·230	26·180
Therm.	75°0	75°3	76°0	76°2	77°0	78°0	78°2	78°4	77°8	78°0	77°6	76°4

Observations of Induction Inclinometer were discontinued from this day.

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′966	17′339	16′789	15′348	12′635	10′814	9′441	9′681	10′744	12′876	13′253	13′906	16′034
5·0	16·240	17·339	16·653	15·004	12·428					12·806	13·287	13·974	16·034
10·0	16·515	17·612	16·653	14·936	12·255					12·738	13·287	13·974	16·034
15·0	16·618	17·475	16·653	14·936	12·188					12·738	13·287	14·386	15·966
20·0	16·584	17·407	16·515	14·728	12·188					12·876	13·700	14·728	15·966
25·0	16·653	17·407	16·515	14·249	12·188					12·944	13·940	14·798	15·897
30·0	16·858	17·201	16·653	14·111	11·846	9·785	9·098	10·058	11·776	12·910	13·906	15·142	15·760
35·0	16·996	17·201	16·309	13·837	11·569					13·013	13·837	15·691	15·623
40·0	17·201	17·133	16·309	13·562	11·431					13·013	13·837	16·102	15·485
45·0	17·339	17·133	15·966	13·493	11·225					13·047	13·837	16·309	15·348
50·0	17·407	17·064	15·623	13·150	11·191					13·219	13·906	16·102	15·416
55·0	17·339	16·858	15·623	12·876	10·814					13·219	13·906	16·034	15·348

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·630	19·330	19·260	19·750	19·750	19·350	19·400	19·060	18·400	17·480	17·305	16·840	16·500
7·0	19·560	19·360	19·280	19·750	19·650					17·500	17·300	16·750	16·510
12·0	19·590	19·370	19·330	19·850	19·650					17·500	17·300	16·660	16·560
17·0	19·630	19·315	19·360	19·850	19·660					17·510	17·280	16·550	16·600
22·0	19·650	19·260	19·380	19·850	19·725					17·500	17·200	16·510	16·690
27·0	19·610	19·250	19·380	19·950	19·610					17·480	17·120	16·520	16·700
32·0	19·570	19·160	19·500	19·950	19·560	19·525	19·250	18·820	18·200	17·450	17·100	16·410	16·640
37·0	19·550	19·150	19·550	19·960	19·550					17·410	17·050	16·360	16·520
42·0	19·550	19·150	19·550	19·950	19·450					17·400	17·000	16·270	16·590
47·0	19·530	19·140	19·550	19·950	19·420					17·395	16·950	16·300	16·570
52·0	19·450	19·140	19·615	19·950	19·360					17·320	16·885	16·410	16·520
57·0	19·400	19·150	19·650	19·950	19·350					17·300	16·840	16·440	16·470
Therm.	80°2	80°8	81°5	83°0	83°9	84°1	84°8	84°9	85°0	85°0	84°7	83°9	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·08·10	2·42·00	1·11·20	−1·09·75	−2·21·70					0·44·20	0·32·60	0·48·65	1·40·00
8·0	3·16·80	2·32·30	0·41·00	−1·31·10	−2·21·70					0·38·40	0·32·60	0·48·65	1·40·00
13·0	3·16·80	2·32·30	0·31·00	−1·31·10	−2·21·70					0·38·40	0·32·60	1·11·20	1·28·50
18·0	3·07·20	2·18·70	0·31·00	−1·31·10	−2·21·70					0·38·40	0·42·90	1·22·40	1·28·50
23·0	3·07·20	2·18·70	0·18·20	−1·31·10	−2·31·40					0·43·05	1·01·10	1·22·40	1·18·80
28·0	3·07·20	2·03·30	0·11·80	−2·01·20	−2·31·40	−2·37·20	−1·34·60	−0·22·25	0·18·00	0·43·05	1·01·10	1·22·40	1·12·90
33·0	3·07·20	2·08·30	0·11·80	−2·01·20	−2·31·40					0·43·05	0·48·65	1·47·40	1·12·90
38·0	3·07·20	1·38·30	−0·16·60	−2·01·20	−2·31·40					0·43·05	0·48·65	2·06·50	1·12·90
43·0	3·02·00	1·38·30	−0·16·60	−2·21·70	−2·31·40					0·39·40	0·48·65	2·06·50	1·01·80
48·0	3·02·00	1·27·60	−0·49·45	−2·21·70	−2·31·40					0·39·40	0·48·65	2·06·50	1·01·80
53·0	2·42·00	1·27·60	−1·01·80	−2·21·70	−2·31·40					0·39·40	0·48·65	1·40·00	1·01·80
58·0	2·42·00	1·11·30	−1·09·75	−2·21·70	−2·24·10	−2·15·55	−1·49·50	0·04·40	0·31·55	0·39·40	0·48·65	1·40·00	1·01·80
Therm.	82°4	81°8	81°8	82°5	83°5	82°6	84°5	84°3	84°6	85°2	85°3	84°7	84°4

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER (in arc).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17·91	17·60	16·14	13·42	11·64	10·02	10·28	11·85	13·47	13·99	14·52	16·66
5·0	18·06	17·60	16·04	13·26					13·47	13·99	14·73	16·76
10·0	18·13	17·53	15·66	12·95					13·42	13·99	14·78	16·76
15·0	18·13	17·39	15·50	12·90					13·47	14·20	14·99	16·61
20·0	18·01	17·34	15·25	12·78					13·47	14·40	15·19	16·56
25·0	17·96	17·34	14·99	12·63					13·68	14·52	15·45	16·56
30·0	17·86	17·34	14·93	12·37	10·54	9·76	10·81	12·63	13·68	14·52	15·82	16·50
35·0	17·86	17·13	14·57	12·31					13·68	14·47	16·24	16·30
40·0	17·80	16·82	14·40	12·26					13·73	14·40	16·82	16·14
45·0	17·76	16·76	14·20	12·11					13·78	14·57	16·82	16·04
50·0	17·60	16·56	13·99	11·95					13·94	14·62	16·82	16·09
55·0	17·60	16·45	13·88	11·85					13·99	14·57	16·82	16·04

SMALL HORIZONTAL FORCE (in Scale Readings).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	26·000	25·560	26·110	26·240	25·930	25·950	25·700	24·880	23·870	23·760	23·130	22·760
7·0	25·950	25·630	26·200	26·200					23·900	23·750	23·100	22·800
12·0	25·900	25·700	26·300	26·210					23·900	23·750	23·000	22·860
17·0	25·860	25·780	26·340	26·230					23·900	23·710	22·910	22·940
22·0	25·790	25·900	26·370	26·250					23·900	23·650	22·860	23·000
27·0	25·740	25·810	26·400	26·140					23·900	23·600	22·900	23·080
32·0	25·700	25·900	26·400	26·100	26·105	25·900	25·400	24·650	23·900	23·590	22·700	23·000
37·0	25·700	25·930	26·400	26·030					23·860	23·510	22·620	22·900
42·0	25·700	25·960	26·400	25·990					23·850	23·480	22·560	22·970
47·0	25·680	26·000	26·400	25·920					23·820	23·360	22·500	22·950
52·0	25·630	26·000	26·380	25·900					23·790	23·300	22·640	22·900
57·0	25·600	26·100	26·260	25·920					23·750	23·260	22·690	22·850
Therm.	78°2	79°3	80°0	80°4	81°3	82°2	82°6	82°5	82°2	82°0	81°4	80°2

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′348	16′653	16′515	15′897	14′592	11′845	10′522	10′537	11′431	12′567	13′562	13′562	13′219
5·0	15·553	16·653	16·515	15·966	13·630					12·738	13·700	13·768	13·150
10·0	15·623	16·789	16·447	15·966	13·562					12·738	13·734	13·768	13·150
15·0	15·760	16·858	16·240	15·966	13·219					12·876	13·768	13·700	13·081
20·0	15·897	16·926	16·102	15·862	12·738					13·013	13·768	13·700	13·081
25·0	16·102	16·926	16·034	15·623	12·533					13·047	13·837	13·700	13·081
30·0	16·240	16·926	15·966	15·416	12·533	11·157	10·128	10·744	12·119	13·150	13·837	13·630	13·013
35·0	16·309	16·959	15·828	14·936	12·445					13·150	13·837	13·562	13·013
40·0	16·447	16·789	15·794	14·762	12·388					13·321	13·837	13·425	13·081
45·0	16·515	16·789	15·794	14·592	12·388					13·425	13·700	13·425	12·944
50·0	16·653	16·653	15·897	14·523	11·569					13·493	13·596	13·287	12·944
55·0	16·789	16·653	15·623	14·076	11·501					13·562	13·562	13·253	13·013

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·650	18·750	19·030	19·350	19·550	19·750	19·600	19·470	19·270	19·000	18·720	18·630	18·530
7·0	18·640	18·790	19·100	19·350	19·550					18·980	18·690	18·610	18·520
12·0	18·620	18·800	19·110	19·350	19·550					18·980	18·660	18·560	18·510
17·0	18·610	18·830	19·120	19·350	19·600					18·950	18·650	18·600	18·500
22·0	18·610	18·880	19·200	19·350	19·600					18·950	18·650	18·620	18·490
27·0	18·600	18·890	19·220	19·350	19·600					18·910	18·650	18·610	18·470
32·0	18·610	18·900	19·220	19·350	19·600	19·750	19·600	19·390	19·140	18·900	18·650	18·650	18·450
37·0	18·630	18·900	19·250	19·400	19·700					18·830	18·620	18·640	18·440
42·0	18·680	18·900	19·250	19·410	19·750					18·830	18·620	18·610	18·435
47·0	18·700	18·930	19·300	19·450	19·750					18·800	18·630	18·590	18·410
52·0	18·710	18·970	19·290	19·500	19·800					18·790	18·660	18·570	18·410
57·0	18·750	19·000	19·300	19·500	19·800					18·750	18·660	18·540	18·395
Therm.	81°0	81°0	81°4	82°5	83°0	84°0	84°4	85°0	84°8	84°2	84°0	83°0	83°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·38·70	3·24·40	2·21·30	1·36·90	0·39·00					2·07·60	2·12·40	2·06·20	1·35·70
8·0	3·38·70	3·20·50	2·09·10	1·28·65	0·39·00					2·07·60	2·12·40	2·06·20	1·35·70
13·0	3·35·40	3·20·50	2·09·10	1·28·65	0·27·40					2·07·60	2·12·40	2·01·00	1·27·00
18·0	3·35·40	3·12·70	2·04·20	1·09·60	0·27·40					2·07·60	2·12·40	1·46·50	1·27·00
23·0	3·35·40	3·12·70	2·04·20	1·09·60	0·27·40					2·07·60	2·12·40	1·46·50	1·27·00
28·0	3·35·40	3·02·30	2·04·20	1·03·30	0·13·80	−0·16·85	−0·16·70	1·02·75	1·45·15	2·07·60	2·12·40	1·46·50	1·27·00
33·0	3·35·40	3·02·30	2·04·20	1·03·30	0·13·80					2·07·60	2·12·40	1·46·50	1·27·00
38·0	3·35·40	3·02·30	2·04·20	1·03·30	0·13·80					2·07·60	2·12·40	1·46·50	1·27·00
43·0	3·35·40	2·35·50	1·48·50	1·03·30	0·04·40					2·07·60	2·12·40	1·46·50	1·27·00
48·0	3·35·40	2·31·90	1·48·50	0·44·50	0·04·40					2·07·60	2·12·40	1·46·50	1·27·00
53·0	3·27·20	2·26·10	1·48·50	0·44·50	0·04·40					2·12·40	2·06·20	1·35·70	1·27·00
58·0	3·24·40	2·21·30	1·36·90	0·39·00	−0·01·60	−0·25·75	0·19·75	1·29·50	2·07·60	2·12·40	2·06·20	1·35·70	1·27·00
Therm.	82°5	81°7	81°8	82°5	83°5	83°5	83°8	84°4	84°4	84°2	83°6	83°1	83°6

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0.0	17·18	17·34	16·56	14·73	12·73	11·85	11·90	12·90	13·99	14·99	15·04	14·47
5.0	17·39	17·34	16·71	14·78					14·09	14·99	14·99	14·47
10.0	17·60	17·13	16·66	14·47					14·14	14·99	14·99	14·47
15.0	17·60	17·02	16·56	14·40					14·20	14·99	14·93	14·47
20.0	17·60	16·87	16·45	14·14					14·20	15·09	14·88	14·40
25.0	17·60	16·82	16·30	13·94					14·20	15·04	14·83	14·25
30.0	17·60	16·66	16·04	13·69	12·11	11·85	12·05	13·68	14·35	15·04	14·78	14·25
35.0	17·60	16·66	15·77	13·52					14·47	14·99	14·73	14·20
40.0	17·60	16·66	15·51	13·36					14·47	14·99	14·52	14·25
45.0	17·53	16·56	15·25	13·10					14·62	15·04	14·47	14·40
50.0	17·48	16·56	15·09	12·95					14·73	14·99	14·47	14·35
55.0	17·34	16·56	14·99	12·83					14·78	14·99	14·47	14·30

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2.0	25·300	25·490	25·720	25·970	26·320	26·100	26·020	25·810	25·100	25·300	25·100	25·080
7.0	25·300	25·500	25·750	26·050					25·160	25·260	25·090	25·070
12.0	25·320	25·540	25·800	26·090					25·290	25·210	25·080	25·050
17.0	25·300	25·600	25·390	26·130					25·370	25·200	25·100	25·040
22.0	25·300	25·650	25·950	26·190					25·460	25·200	25·100	25·020
27.0	25·330	25·650	25·970	26·230					25·530	25·200	25·090	25·010
32.0	25·320	25·620	25·980	26·250	26·350	26·150	25·920	25·750	25·490	25·190	25·090	25·009
37.0	25·350	25·610	25·980	26·290					25·480	25·190	25·100	24·970
42.0	25·370	25·610	26·000	26·320					25·480	25·150	25·100	24·950
47.0	25·390	25·630	26·000	26·350					25·400	25·160	25·090	24·920
52.0	25·400	25·660	26·000	26·390					25·380	25·110	25·090	24·900
57.0	25·430	25·690	25·990	26·400					25·350	25·150	25·090	24·900
Therm.	78°0	78°2	79°5	79°9	80°2	81°2	82°0	82°0	81°2	80°4	80°1	80°0

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′179	16′309	16′653	15′966	15′623	13′562	11′845	10′676	12′601	13′768	14′145	13′837	13′700
5·0	14·249	16·084	16·653	15·966	14·936					13·802	14·317	13·837	13·700
10·0	14·111	16·515	16·584	15·966	14·936					13·906	14·283	13·768	13·596
15·0	14·728	16·653	16·515	15·966	14·936					13·974	14·213	13·700	13·562
20·0	14·936	16·653	16·447	15·966	14·936					14·076	14·179	13·630	13·493
25·0	15·211	16·653	16·447	16·136	14·592					14·076	14·111	13·768	13·493
30·0	15·657	16·653	16·309	16·309	14·420	12·876	11·157	11·501	13·425	14·076	13·974	13·700	13·493
35·0	15·814	16·789	16·309	16·309	14·249					14·145	13·974	13·700	13·498
40·0	15·794	16·926	15·966	16·172	14·249					14·213	13·974	13·837	13·425
45·0	16·034	16·789	15·966	15·966	14·076					14·213	13·974	13·837	13·425
50·0	16·136	16·858	15·623	15·966	13·906					14·179	13·906	13·837	13·493
55·0	16·034	16·755	15·623	15·623	13·562					14·213	13·887	13·700	13·527

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·500	19·350	19·600	20·050	19·750	19·950	19·750	19·620	19·050	18·710	18·360	18·330	18·150
7·0	19·440	19·350	19·700	20·050	19·750					18·705	18·350	18·330	18·100
12·0	19·410	19·400	19·700	20·090	19·750					18·710	18·330	18·320	19·100
17·0	19·390	19·450	19·800	20·050	19·850					19·675	18·310	18·320	18·080
22·0	19·300	19·515	19·810	19·950	19·850					18·640	18·300	18·320	18·070
27·0	19·275	19·550	19·850	19·450	19·850					18·640	18·300	18·320	19·050
32·0	19·120	19·540	19·850	19·450	19·850	19·650	19·750	19·310	18·800	18·600	18·290	18·320	18·040
37·0	19·155	19·450	19·850	19·350	19·850					18·560	18·290	18·300	18·010
42·0	19·305	19·420	19·875	19·450	19·850					18·517	18·290	18·290	18·000
47·0	19·400	19·450	19·950	19·450	19·950					18·450	18·290	18·290	18·000
52·0	19·400	19·450	19·950	19·450	19·850					18·410	18·320	18·210	18·000
57·0	19·375	19·400	19·950	19·650	19·950					18·390	19·340	18·200	18·000
Therm.	80°8	80°9	81°8	82°7	83°3	84°5	84°9	85°0	85°2	85°0	84°9	84°1	83°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·35·10	3·48·10	3·01·70	2·00·00	1·12·85					2·13·00	2·03·25	1·37·40	1·37·40
8·0	3·24·80	3·48·10	2·37·60	2·00·00	1·12·85					2·13·00	1·46·85	1·37·40	1·37·40
13·0	3·36·50	3·43·40	2·37·60	2·00·00	1·12·85					2·11·00	1·43·60	1·37·40	1·37·40
18·0	3·36·50	3·43·40	2·37·60	1·44·35	1·16·80					2·11·00	1·43·60	1·37·40	1·31·60
23·0	4·02·50	3·31·50	2·29·00	1·44·35	1·16·80					2·11·00	1·40·10	1·37·40	1·31·60
28·0	4·10·20	3·31·50	2·29·00	1·44·35	1·16·80	0·14·20	0·13·05	1·47·65	2·13·00	2·11·00	1·37·40	1·37·40	1·31·60
33·0	4·10·20	3·31·50	2·29·00	2·11·00	0·38·30					2·11·00	1·37·40	1·37·40	1·31·60
38·0	4·10·20	3·31·50	2·19·35	2·09·20	0·38·30					2·11·00	1·37·40	1·37·40	1·31·60
43·0	4·10·20	3·22·90	2·19·35	1·44·40	0·29·40					2·11·00	1·37·40	1·37·40	1·31·60
48·0	3·48·10	3·14·80	2·00·00	1·39·10	0·29·40					2·11·00	1·37·40	1·37·40	1·31·60
53·0	3·48·10	3·14·80	2·00·00	1·39·10	0·29·40					2·06·95	1·37·40	1·37·40	1·31·60
58·0	3·48·10	3·01·70	2·00·00	1·12·85	0·21·50	0·07·50	0·31·05	1·49·20	2·13·00	2·03·25	1·37·40	1·37·40	1·31·60
Therm.	83°0	82°0	82°0	82°5	83°0	84°0	84°5	84°6	84°9	84°9	85°5	84°9	84°3

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17·86	18·13	17·39	17·08	15·19	13·42	12·37	14·47	15·40	16·04	15·45	15·25
5·0	17·86	18·13	17·34	17·02					15·45	16·04	15·25	15·19
10·0	17·86	18·13	17·34	16·82					15·51	15·97	15·25	15·09
15·0	18·13	18·13	17·48	16·61					15·56	15·92	15·25	14·99
20·0	18·13	18·13	17·60	16·50					15·66	15·77	15·25	14·99
25·0	18·18	18·18	17·70	16·30					15·77	15·56	15·19	14·99
30·0	18·23	18·01	17·60	16·19	14·47	12·90	13·31	14·99	15·77	15·51	15·25	14·99
35·0	18·39	17·80	17·65	16·04					15·92	15·51	15·30	14·99
40·0	18·33	17·65	17·65	15·82					15·97	15·51	15·30	14·99
45·0	18·18	17·60	17·53	15·66					16·04	15·51	15·25	14·99
50·0	18·18	17·53	17·34	15·51					16·04	15·51	15·25	14·99
55·0	18·18	17·39	17·13	15·35					16·04	15·51	15·25	14·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	25·400	25·530	26·300	25·620	25·800	25·550	25·500	24·950	24·800	24·400	24·400	24·180
7·0	25·400	25·600	26·350	25·600					24·760	24·380	24·400	24·150
12·0	25·420	25·600	26·150	25·600					24·750	24·350	24·330	24·170
17·0	25·490	25·640	25·900	25·630					24·680	24·310	24·370	24·150
22·0	25·500	25·700	25·740	25·600					24·630	24·300	24·350	24·150
27·0	25·500	25·750	25·600	25·600					24·610	24·380	24·340	24·120
32·0	25·430	25·790	25·500	25·600	25·650	25·680	25·250	24·940	24·600	24·300	24·380	24·100
37·0	25·350	25·860	25·400	25·600					24·580	24·300	24·300	24·100
42·0	25·390	25·970	25·410	25·630					24·510	24·350	24·310	24·100
47·0	25·400	26·090	25·420	25·670					24·450	24·380	24·300	24·100
52·0	25·400	26·170	25·470	25·700					24·420	24·400	24·270	24·100
57·0	25·460	26·250	25·590	25·740					24·400	24·400	24·220	24·080
Therm.	78°0	78°4	79°2	80°0	81°6	82°2	82°6	82°6	82°0	82°0	81°7	80°2

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14'179	16'447	17'201	15'966	14'249	11'913	10'333	10'471	11'913	13'287	14'042	13'974	13'355
5·0	14·249	16·515	17·270	15·966	14·249					13·321	14·076	13·837	13·355
10·0	14·420	16·721	17·098	15·897	13·630					13·355	14·076	13·837	13·355
15·0	15·074	16·721	16·996	15·862	13·562					13·389	14·076	13·768	13·355
20·0	15·004	16·789	16·892	15·348	13·219					13·493	14·154	13·700	13·355
25·0	14·960	16·858	16·858	15·280	13·219					13·527	14·111	13·630	13·355
30·0	15·004	16·996	16·653	15·280	13·219	10·814	10·196	11·363	12·738	13·630	14·111	13·630	13·355
35·0	15·623	16·858	16·618	15·280	12·876					13·700	14·076	13·562	13·287
40·0	15·691	16·926	16·309	15·280	12·876					13·837	14·076	13·493	13·287
45·0	16·034	16·996	16·309	15·280	12·703					13·906	14·042	13·425	13·287
50·0	16·034	17·064	16·309	14·936	12·188					14·042	14·042	13·425	13·287
55·0	16·309	17·098	16·000	14·592	12·188					14·042	13·974	13·355	13·287

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·980	18·965	19·965	19·500	19·850	20·100	19·900	19·550	19·340	19·170	18·990	18·890	18·810
7·0	18·950	18·950	19·025	19·550	19·850					19·170	18·990	18·890	18·800
12·0	18·950	18·930	19·135	19·600	19·900					19·180	18·950	18·890	18·780
17·0	18·950	18·950	19·210	19·650	19·900					19·190	18·950	18·890	18·750
22·0	18·950	18·955	19·225	19·700	19·900					19·190	18·930	18·890	18·730
27·0	18·950	18·940	19·190	19·700	19·850					19·170	18·910	18·900	18·710
32·0	18·975	18·940	19·200	19·700	19·800	20·000	19·800	19·405	19·290	19·150	18·910	18 900	18·700
37·0	18·940	18·930	19·300	19·700	19·850					19·120	18·900	18·905	18·700
42·0	18·920	18·890	19·250	19·700	19·900					19·070	18·900	18·940	18·690
47·0	18·900	18·895	19·350	19·750	20·050					19·020	18·900	18·970	18·680
52·0	18·915	18·890	19·400	19·750	20·100					19·010	18·890	18·970	18·690
57·0	18·930	18·875	19·500	19·800	20·150					19·000	18·890	18·900	18·700
Therm.	81°4	81°3	81°8	83°0	84°0	84°2	84°5	84°6	85°0	85°1	84°8	84°1	83°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·18·20	4·25·40	3·35·30	1·33·55	0·15·80					1·47·10	1·47·60	1·32·95	2·06·00
8·0	4·18·20	4·25·40	3·11·60	1·19·00	0·15·80					1·47·10	1·43·10	1·32·95	2·06·00
13·0	4·18·20	4·25·40	3·05·10	1·19·00	0·03·00					1·47·10	1·43·10	1·32·95	2·06·00
18·0	4·18·20	4·25·40	2·42·40	1·19·00	0·03·00					1·47·10	1·43·10	1·32·95	2·06·00
23·0	4·18·20	4·13·00	2·35·40	1·01·90	0·19·50					1·47·10	1·43·10	1·32·95	2·12·20
28·0	4·18·20	4·13·00	2·35·40	0·43·00	0·19·50	−0·37·00	0·04·50	0·45·30	1·37·50	1·47·10	1·37·00	1·32·95	2·12·20
33·0	4·18·20	4·13·00	2·16·60	0·43·00	0·19·50					1·47·10	1·37·00	1·32·95	2·12·20
38·0	4·18·20	3·47·50	2·16·60	0·43·00	−0·16·10					1·47·10	1·32·95	1·32·95	2·12·20
43·0	4·25·40	3·47·50	2·03·50	0·29·20	−0·28·20					1·47·60	1·32·95	1·45·30	2·12·20
48·0	4·25·40	3·47·50	2·03·50	0·29·20	−0·39·00					1·47·60	1·32·95	1·45·30	2·12·20
53·0	4·25·40	3·40·30	1·39·80	0·29·20	−1·00·40					1·47·69	1·32·95	1·45·30	2·12·20
58·0	4·25·40	3·35·30	1·33·55	0·15·80	−1·00·40	−0·28·05	0·15·55	1·08·90	1·47·10	1·47·60	1·32·95	2·06·00	2·12·20
Therm.	84°0	82°7	82°4	83°0	83°5	84°1	84°3	84°5	85°2	86°0	86°1	85°9	84°9

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'60	18'49	17'39	16'04	13'16	11'85	12'05	13'42	14'52	15'45	15'25	14'73
5·0	17·86	18·49	17·34	15·82					14·73	15·51	15·19	14·73
10·0	18·01	18·54	17·23	15·51					14·88	15·51	15·19	14·73
15·0	18·06	18·28	17·08	15·19					14·99	15·45	15·14	14·73
20·0	18·13	18·13	17·02	14·93					14·99	15·51	14·99	14·73
25·0	18·13	18·13	16·87	14·73					14·99	15·51	14·99	14·73
30·0	18·16	18·13	16·71	14·47	12'11	11·85	12·90	14·04	14·99	15·51	14·99	14·73
35·0	18·13	18·06	16·56	14·47					15·04	15·51	15·99	14·73
40·0	18·18	17·80	16·56	14·40					15·14	15·51	15·93	14·67
45·0	18·39	17·70	16·45	13·99					15·25	15·45	14·78	14·73
50·0	18·39	17·65	16·30	13·73					15·30	15·40	14·73	14·73
55·0	18·44	17·60	16·14	13·42					15·40	15·25	14·78	14·73

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	24·820	24·700	25·100	25·450	25·810	25·690	25·140	24·890	24·750	24·520	24·480	24·500
7·0	24·800	24·750	25·130	25·500					24·780	24·500	24·450	24·490
12·0	24·800	24·790	25·200	25·560					24·790	24·490	24·470	24·490
17·0	24·800	24·830	25·240	25·520					24·800	24·450	24·490	24·480
22·0	24·800	24·890	25·300	25·500					24·790	24·410	24·500	24·490
27·0	24·800	24·900	25·310	25·500					24·770	24·400	24·500	24·480
32·0	24·800	24·880	25·350	25·510	25·800	25·400	25·000	24·815	24·750	24·400	24·500	24·470
37·0	24·800	24·880	25·360	25·580					24·720	24·400	24·500	24·450
42·0	24·780	24·900	25·350	25·690					24·650	24·400	24·500	24·450
47·0	24·730	24·910	25·370	25·760					24·600	24·400	24·520	24·440
52·0	24·700	25·000	25·400	25·850					24·580	24·400	24·530	24·420
57·0	24·670	25·030	25·420	25·850					24·550	24·400	24·530	24·400
Therm.	77°9	78°0	79°2	80°0	80°4	81°4	82°0	82°4	82°0	82°0	81°8	81°2

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′660	16′658	16′996	16′309	15′966	12′906	12′188	12′326	13′630	15′314	15′553	15′416	14′592
5·0	14·832	16·755	16·926	16·309	15·966					15·416	15·553	15·348	14·592
10·0	14·936	16·960	16·996	16·309	15·966					15·416	15·533	15·314	14·592
15·0	15·108	16·926	16·996	16·309	15·897					15·348	15·587	15·280	14·592
20·0	15·485	16·926	16·996	16·309	15·623					15·519	15·587	15·211	14·592
25·0	15·794	16·996	16·926	16·172	15·623					15·623	15·623	15·142	14·523
30·0	15·670	16·966	16·996	15·966	15·280	12·876	12·188	12·806	14·454	15·623	15·587	15·074	14·523
35·0	15·828	17·201	16·996	15·966	15·211					15·553	15·416	14·936	14·592
40·0	16·172	17·201	16·996	16·034	15·280					15·623	15·691	14·798	14·798
45·0	16·309	17·270	16·653	15·966	14·936					15·553	15·553	14·660	14·798
50·0	16·447	17·270	16·584	15·794	14·936					15·623	15·553	14·592	14·798
55·0	16·515	16·996	16·309	15·897	14·592					15·553	15·485	14·523	14·728

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·090	18·880	18·810	19·150	19·350	19·660	19·700	19·470	19·190	18·860	18·660	18·590	18·400
7·0	19·090	18·850	18·810	19·150	19·350					18·830	18·650	18·590	18·390
12·0	19·060	18·810	18·840	19·150	19·445					18·805	18·650	18·585	18·360
17·0	19·040	18·780	18·880	19·210	19·450					18·800	18·640	18·570	18·390
22·0	19·060	18·770	18·880	19·300	19·450					18·760	18·625	18·630	18·390
27·0	19·080	18·780	18·900	19·300	19·475					18·745	18·625	18·520	18·390
32·0	19·050	18·750	18·950	19·350	19·550	19·650	19·550	19·370	19·060	18·700	18·620	18·500	18·380
37·0	19·010	18·750	18·950	19·350	19·550					18·700	18·600	18·510	18·370
42·0	18·980	18·780	19·050	19·350	19·550					18·700	18·600	18·480	18·360
47·0	18·950	18·800	19·050	19·350	19·600					18·690	18·590	18·425	18·360
52·0	18·900	18·800	19·090	19·350	19·650					18·690	18·590	18·400	18·420
57·0	18·870	18·800	19·150	19·358	19·650					18·670	18·590	18·380	18·450
Therm.	80°3	80°7	81°3	82°0	83°8	83°8	84°0	84°2	84°5	84°5	84°3	83°8	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d.
3·0	4·19·20	4·35·90	3·24·80	2·04·45	1·17·55					6·33·90	5·29·65	4·42·30	4·13·90
8·0	4·19·20	4·35·90	3·13·90	2·04·45	1·17·55					6·27·80	5·29·65	4·31·00	4·25·80
13·0	4·19·20	4·26·80	3·13·90	2·04·45	1·05·15					6·22·30	5·29·65	4·31·00	4·25·80
18·0	4·27·40	4·26·80	3·03·20	1·44·70	1·05·15					6·22·30	5·29·65	4·24·00	4·25·80
23·0	4·27·40	4·26·80	3·03·20	1·44·70	*					6·17·35	5·22·05	4·24·00	4·25·80
28·0	4·39·30	4·08·80	3·03·20	1·44·70		0·15·30	3·01·60	5·12·30	6·14·90	6·17·35	5·18·30	4·24·00	4·25·80
33·0	4·39·30	4·08·80	2·36·10	1·44·70						6·08·90	5·11·00	4·02·00	4·44·10
38·0	4·39·30	4·02·20	2·36·10	1·44·70						6·03·40	5·11·00	4·02·00	5·02·40
43·0	4·39·30	3·45·10	2·27·60	1·44·70						5·56·35	5·11·00	4·02·00	5·02·40
48·0	4·43·10	3·45·10	2·27·60	1·23·50						5·38·90	5·01·50	4·02·00	5·11·40
53·0	4·43·10	3·34·80	2·13·50	1·28·50						5·35·40	5·01·50	4·02·00	5·11·40
58·0	4·35·90	3·34·80	2·04·45	1·17·55		0·42·60	4·05·20	5·47·40	6·33·90	5·32·80	4·42·30	4·13·90	5·11·40
Therm.	82°2	81°3	81°4	82°0	83°0		83°5	84°2	84°5	85°2	85°6	86°0	84°5

* Magnet removed and cleaned.

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17·96	18·39	17·60	16·82	15·45	13·42	13·83	14·99	16·66	17·08	16·56	15·92
5·0	18·13	18·33	17·53	17·02					16·71	17·08	16·56	15·97
10·0	18·13	18·28	17·39	17·06					16·76	17·08	16·56	15·92
15·0	18·13	18·23	17·34	17·08					16·82	17·08	16·56	15·82
20·0	18·18	18·18	17·24	17·08					16·87	17·08	16·56	15·82
25·0	18·28	18·18	17·34	16·82					16·92	17·06	16·50	15·82
30·0	18·33	18·13	17·28	16·56	14·47	13·42	14·35	16·04	17·02	17·05	16·30	15·82
35·0	18·39	18·13	17·13	16·56					17·02	17·02	16·09	15·87
40·0	18·39	18·01	17·06	16·45					17·02	16·97	16·04	15·97
45·0	18·44	17·91	17·05	16·19					16·97	16·87	16·04	16·04
50·0	18·49	17·86	17·05	15·87					17·02	16·82	15·87	16·04
55·0	18·44	17·70	17·02	15·56					17·02	16·82	15·82	16·09

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	24·300	24·250	24·520	24·720	24·930	25·000	24·900	22·450	24·000	23·820	23·770	23·680
7·0	24·250	24·300	24·540	24·700					24·000	23·800	23·750	23·650
12·0	24·230	24·360	24·590	24·700					24·080	23·810	23·730	23·670
17·0	24·210	24·300	24·600	24·690					23·980	23·820	23·700	23·690
22·0	24·250	24·300	24·630	24·720					23·950	23·800	23·720	23·700
27·0	24·240	24·300	24·700	24·750					23·910	23·800	23·700	23·700
32·0	24·230	24·320	24·700	24·750	25·000	24·960	24·680	24·310	23·900	23·800	23·700	23·700
37·0	24·220	24·390	24·700	24·780					23·890	23·800	23·700	23·700
42·0	24·240	24·400	24·700	24·790					23·880	23·800	23·700	23·700
47·0	24·270	24·420	24·750	24·840					23·850	23·800	23·700	23·700
52·0	24·300	24·450	24·760	24·890					23·840	23·770	23·670	23·720
57·0	24·300	24·490	24·710	24·910					23·830	23·770	23·690	23·750
Therm.	77°4	78°0	78°4	79°8	80°3	81°0	82°0	82°2	82°0	82°0	81°8	80°2

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·867	15·760	14·867	14·317	13·253	12·533	11·845	12·806	13·768	14·386	14·936	19·748	21·459
5·0	14·867	15·760	14·592	14·249	13·219					14·523	14·936	21·046	21·116
10·0	14·867	15·828	14·728	14·249	13·150					14·523	14·694	21·803	21·561
15·0	15·004	15·828	14·798	14·249	12·944					14·798	14·660	22·524	21·424
20·0	15·211	15·828	14·867	14·249	12·188					14·936	14·523	24·206	21·116
25·0	15·280	15·691	14·694	14·249	11·845					15·176	13·630	25·581	20·773
30·0	15·280	15·691	14·523	13·906	12·188	11·845	12·256	12·806	14·249	15·348	14·849	26·270	20·773
35·0	15·485	15·623	14·523	13·906	12·188					15·211	16·172	26·338	20·497
40·0	15·485	15·446	14·317	13·630	12·533					15·142	17·682	25·443	19·81
45·0	15·553	15·211	14·249	13·355	12·188					15·176	17·819	23·520	19·262
50·0	15·623	15·211	14·317	13·258	12·533					14·798	18·299	22·833	18·713
55·0	15·691	15·074	14·317	13·253	12·533					14·936	19·262	21·733	18·678

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·820	18·420	19·490	19·500	19·050	19·100	18·800	18·170	17·985	17·500	17·360	13·940	11·190
7·0	18·775	18·525	19·650	19·460	18·950					17·500	17·390	13·115	11·200
12·0	18·780	18·700	19·700	19·250	18·950					17·500	17·350	12·500	10·840
17·0	18·750	18·800	19·630	19·200	18·950					17·550	17·310	11·780	10·430
22·0	18·785	18·870	19·360	19·200	19·850					17·550	17·195	11·500	10·230
27·0	18·715	18·940	19·395	19·200	19·460					17·500	18·540	11·315	9·985
32·0	18·700	18·965	19·400	19·200	19·150	18·550	18·150	18·100	17·550	17·355	17·930	11·440	9·925
37·0	18·715	18·960	19·385	19·310	19·150					17·350	17·825	10·240	9·630
42·0	18·700	19·055	19·100	19·460	19·050					17·360	17·000	10·175	9·865
47·0	18·710	19·240	19·150	19·400	19·160					17·450	16·255	10·425	9·650
52·0	18·700	19·300	19·300	19·400	19·200					17·450	16·600	10·395	9·200
57·0	18·500	19·350	19·300	19·150	19·200					17·400	14·880	11·060	8·635
Therm.	81°0	81°2	81°9	83°0	84°0	84°8	85°0	85°0	85°3	85°4	85°0	84°1	83°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·36·60	5·16·40	2·42·90	2·10·80	1·00·25					5·00·75	4·23·90	8·47·30	4·22·40
8·0	5·36·60	5·16·40	2·09·90	1·31·80	1·14·20					5·35·95	4·05·60	9·23·00	5·04·00
13·0	5·36·60	4·35·20	2·25·90	1·31·80	1·14·20					5·40·00	4·05·60	9·17·30	6·02·40
18·0	5·36·60	4·19·80	2·36·50	1·31·80	-0·20·10					5·40·00	3·46·40	9·42·60	5·12·30
23·0	5·36·60	4·11·60	3·09·10	1·31·80	-3·02·60					5·40·00	1·27·90	10·16·80	5·15·20
28·0	5·36·60	4·04·20	2·41·40	1·31·80	-3·02·60	-2·08·00	4·36·25	4·40·80	6·24·75	5·40·00	3·13·90	10·19·00	5·42·10
33·0	5·36·60	3·44·40	2·26·50	1·10·40	-2·08·85					5·40·00	5·27·30	11·06·60	5·21·10
38·0	5·36·60	3·44·40	3·00·20	0·36·45	-2·08·85					5·40·75	6·36·30	9·40·80	4·05·40
43·0	5·36·60	3·15·00	3·00·20	0·14·50	-2·08·85					4·45·80	7·25·50	6·26·20	4·05·40
48·0	5·16·40	3·15·00	3·00·20	0·14·50	-0·45·75					4·27·80	7·25·50	5·04·70	4·05·40
53·0	5·16·40	3·00·70	2·10·80	0·14·50	0·12·70					4·23·90	7·25·50	4·40·40	4·45·20
58·0	5·16·40	3·42·90	2·10·80	1·00·25	0·28·20	1·41·80	5·37·10	6·05·50	5·36·50	4·23·90	8·17·00	3·36·50	4·08·40
Therm.	83°0	82°3	82°2	82°5	83°5	84°8	84°5	84°4	84°6	85°2	85°0	84°5	84°9

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16·97	16·09	15·56	14·52	13·94	13·42	13·94	14·99	15·51	16·09	21·27	22·25
5·0	17·06	15·87	15·45	14·47					15·51	16·04	22·31	22·31
10·0	17·08	15·92	15·51	14·25					15·77	15·97	23·09	22·77
15·0	17·05	15·97	15·51	14·04					15·92	15·82	23·53	22·62
20·0	17·08	15·97	15·25	13·47					16·04	15·87	25·24	22·31
25·0	17·02	16·04	15·25	12·83					16·30	15·45	26·96	22·05
30·0	16·92	15·77	15·19	12·90	12·90	13·42	14·04	15·61	16·56	16·04	27·54	22·05
35·0	16·66	15·71	15·09	13·26					16·50	17·34	27·54	21·79
40·0	16·61	15·97	15·04	13·52					16·30	18·91	26·53	21·05
45·0	16·50	15·61	14·83	13·42					16·04	19·19	25·13	20·27
50·0	16·24	15·56	14·62	13·83					16·04	19·70	23·98	20·16
55·0	16·19	15·51	14·47	13·94					16·09	20·53	23·09	19·90

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	23·850	24·950	24·800	24·500	24·520	24·100	23·480	23·120	22·550	22·490	18·560	15·500
7·0	23·950	25·260	24·970	24·380					22·590	22·500	17·300	15·350
12·0	24·080	25·300	24·800	24·350					22·600	22·520	16·860	14·465
17·0	24·200	25·190	24·700	24·600					22·630	22·410	16·190	14·640
22·0	24·300	24·900	24·620	24·750					22·650	22·400	15·735	14·475
27·0	24·380	24·810	24·600	24·900					22·630	24·100	15·480	14·190
32·0	24·450	24·900	24·650	25·100	23·850	23·450	23·190	22·610	22·470	23·455	15·180	13·980
37·0	24·450	24·915	24·670	24·820					22·420	22·970	14·250	13·900
42·0	24·600	24·740	24·755	24·500					22·500	21·940	14·470	14·050
47·0	24·700	24·600	24·880	24·490					22·600	21·200	14·500	13·700
52·0	24·820	24·720	24·810	24·670					22·570	20·550	14·540	13·250
57·0	24·890	24·790	24·700	24·680					22·520	19·340	15·670	12·600
Therm.	77°9	78°0	76°4	79°8	80°1	81°2	81°2	81°6	82°0	81°7	81°3	80°1

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14′317	17′201	17′339	16′653	14′901	13′287	11′879	10′985	12′669	14′557	20′276	19′194	18′849
5·0	14·798	17·750	17·407	16·653	14·936					14·867	20·360	20·154	18·507
10·0	15·553	17·726	17·509	16·378	14·936					15·983	20·704	20·086	18·359
15·0	16·343	17·750	17·339	16·034	14·936					16·447	20·909	19·400	17·956
20·0	16·343	17·064	17·201	15·966	14·799					16·789	20·567	19·570	17·682
25·0	16·653	17·030	16·823	15·966	14·249					17·167	20·360	20·978	17·682
30·0	16·447	17·167	16·653	15·657	14·249	13·219	10·814	12·876	13·562	17·750	19·948	21·733	17·064
35·0	16·378	17·750	16·996	15·691	14·249					17·270	19·811	21·665	17·064
40·0	16·309	17·544	17·133	15·623	14·249					19·211	19·743	21·253	16·996
45·0	16·858	18·025	16·926	15·623	13·906					19·468	19·468	20·543	16·996
50·0	16·515	17·319	16·653	15·623	13·493					20·276	19·811	19·605	16·926
55·0	17·133	17·750	16·653	14·936	13·219					20·276	19·124	18·849	16·858

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·825	17·140	16·700	17·400	18·200	17·800	17·300	16·765	16·770	15·300	12·210	11·125	12·360
7·0	17·715	17·090	16·870	17·550	17·950					15·175	12·140	10·860	12·510
12·0	17·340	16·980	16·940	17·625	17·900					15·010	11·930	11·090	12·640
17·0	17·500	16·860	16·990	17·600	17·800					14·900	11·810	11·260	12·680
22·0	17·585	16·720	16·975	17·450	17·650					14·600	11·510	11·330	12·580
27·0	17·800	16·685	17·080	17·600	17·650					14·350	11·420	14·430	12·550
32·0	17·655	16·570	17·050	17·630	17·800	17·250	17·350	17·085	15·800	14·050	11·360	11·700	12·450
37·0	17·605	16·795	17·100	17·610	18·125					13·752	11·200	11·675	12·360
42·0	17·305	16·555	17·300	17·650	17·950					13·425	11·050	11·790	12·390
47·0	17·480	16·670	17·150	17·625	18·150					13·255	10·950	11·930	12·400
52·0	17·450	16·775	17·300	17·800	18·250					12·700	10·900	12·145	12·100
57·0	17·015	16·700	17·500	18·000	18·290					12·615	11·195	12·350	12·055
Therm.	80°5	80°4	81°0	82°0	83°0	84°0	84°8	85°2	85°3	85°9	85°4	84°7	83°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	6·47·50	6·48·10	4·05·60	1·16·35	1·11·95					5·01·50	6·04·20	4·27·70	3·31·20
8·0	6·47·50	6·31·80	3·40·60	1·07·10	1·11·95					5·38·30	6·20·05	5·40·30	3·31·20
13·0	6·47·50	6·00·30	3·12·80	1·07·10	2·07·50					6·16·55	6·20·05	4·28·30	3·31·20
18·0	6·46·60	6·00·30	3·02·60	1·07·10	2·07·50					6·16·55	6·04·70	3·39·40	3·12·90
23·0	8·06·90	5·14·40	2·43·30	1·32·00	3·04·85					6·16·55	5·35·50	5·15·60	3·26·00
28·0	6·38·00	4·27·50	2·43·30	1·32·00	2·49·75	2·24·55	1·29·75	5·19·45	5·26·70	6·39·40	5·24·90	6·10·60	3·26·00
33·0	6·43·80	5·30·00	2·30·50	1·32·00	2·27·35					6·23·30	5·08·55	5·43·90	3·26·00
38·0	7·04·60	4·29·00	2·37·05	1·30·60	2·27·35					6·12·00	5·02·00	5·22·70	3·26·00
43·0	7·47·80	4·48·30	2·00·15	1·30·60	2·39·30					7·17·20	4·35·00	4·32·20	3·31·40
48·0	7·15·90	4·21·60	2·00·15	1·30·60						6·38·65	4·41·20	3·30·90	3·31·40
53·0	7·41·40	4·05·60	1·25·60	1·30·60						7·01·30	4·27·70	3·13·00	4·16·30
58·0	6·48·10	4·05·60	1·16·35	1·05·25	2·26·00	1·39·80	2·34·10	5·41·20	5·01·50	6·44·10	3·09·10	3·22·80	4·16·30
Therm.	83°0	81°5	81°6	82°0	82°3	83°5	84°0	84°2	85°2	85°5	86°0	85°7	85°4

* An insect on one of the cross wires.

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	18'65	18'49	17'60	16·04	14'47	12'90	12'90	14·99	15'71	21'47	21·27	19'96
5·0	18'91	18·65	17·48	16·04					16·30	21·53	21·27	19·70
10·0	18·91	18·65	17·34	16·09					17·08	21·79	21·53	19·48
15·0	18·80	18·39	17·23	16·04					17·70	22·05	21·79	19·19
20·0	18·65	18·13	17·13	15·77					18·18	21·79	22·10	18·91
25·0	18·33	18·13	16·97	15·45					18·65	21·32	22·31	18·65
30·0	18·13	17·86	16·82	15·25	14·20	14·85	13·94	15·40	19·11	21·00	22·57	18·44
35·0	18·65	18·13	16·56	15·09					19·43	21·05	21·79	18·23
40·0	19·17	18·13	16·30	14·99					19·90	21·10	21·32	18·13
45·0	19·17	18·13	16·14	14·73					20·37	20·74	20·89	18·13
50·0	18·96	17·80	16·30	14·77					21·10	20·74	20·74	18·13
55·0	18·70	17·60	16·04	14·47					21·53	20·94	20·16	18·13

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	22·100	21·380	22·530	23·200	23·380	22·500	21·900	21·500	20·280	16·680	15·150	16·930
7·0	22·000	21·690	22·600	22·920					20·040	16·400	15·130	17·020
12·0	21·900	21·820	22·610	22·840					19·900	16·180	15·300	17·050
17·0	21·800	21·890	22·780	22·680					19·600	16·100	15·480	17·100
22·0	21·690	21·900	22·580	22·400					19·380	16·050	15·650	17·120
27·0	21·650	22·000	22·670	22·500					19·000	15·830	15·830	17·080
32·0	21·520	22·000	22·790	22·640	22·300	22·500	22·200	20·600	18·760	15·600	15·950	17·000
37·0	21·500	21·970	22·730	22·760					18·530	15·400	16·230	16·900
42·0	21·430	22·030	22·780	22·890					18·300	15·300	16·530	17·000
47·0	21·700	22·100	22·750	23·130					17·850	15·200	16·610	16·910
52·0	21·700	22·330	22·940	23·350					17·330	15·150	16·700	16·790
57·0	21·600	22·480	23·060	23·300					16·920	15·200	16·810	16·520
Therm.	76°3	77°2	78°0	79°¼	80°1	80°4	80°3	81°9	82°0	81°8	81°7	80°1

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH SEPTEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16·102	17·750	17·819	15·897	14·386	12·360	11·501	10·505	11·569	13·684	14·488	14·179	13·425
5·0	15·966	17·887	17·475	15·897	14·249					13·700	14·454	14·179	13·493
10·0	16·515	17·887	17·646	15·460	14·249					13·837	14·454	14·042	13·562
15·0	16·549	18·025	17·441	15·280	13·562					13·940	14·523	13·906	13·700
20·0	16·789	18·093	17·201	15·280	13·562					13·974	14·523	13·768	13·837
25·0	16·789	18·025	17·270	15·245	13·287					14·111	14·557	13·700	13·837
30·0	17·133	18·025	16·926	14·936	13·355	11·845	10·471	11·225	12·910	14·179	14·592	13·562	13·940
35·0	16·996	18·093	16·996	14·867	13·493					14·317	14·557	13·425	14·111
40·0	17·339	18·231	16·653	14·592	12·944					14·386	14·454	13·355	14·008
45·0	17·475	17·887	16·309	14·592	13·219					14·386	14·454	13·355	13·974
50·0	17·784	18·025	16·309	14·592	12·533					14·454	14·386	13·355	13·837
55·0	17·544	17·887	16·136	14·386	12·533					14·454	14·317	13·355	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·420	17·250	17·680	18·450	18·700	16·950	18·450	17·960	17·730	17·520	17·465	17·520	17·700
7·0	17·390	17·250	17·745	18·500	18·650					17·550	17·460	17·540	17·660
12·0	17·300	17·290	17·780	18·550	18·600					17·550	17·460	17·560	17·650
17·0	17·265	17·280	17·800	18·550	18·700					17·505	17·430	17·590	17·650
22·0	17·305	17·300	17·960	18·650	18·750					17·500	17·410	17·640	17·630
27·0	17·270	17·335	18·050	18·925	18·900					17·500	17·390	17·650	17·670
32·0	17·250	17·350	18·085	18·975	18·850	18·750	18·160	17·930	17·640	17·510	17·410	17·650	17·660
37·0	17·255	17·325	18·150	19·050	18·850					17·470	17·430	17·660	17·640
42·0	17·225	17·430	18·200	19·000	18·850					17·460	17·450	17·740	17·610
47·0	17·250	17·420	18·210	19·000	18·850					17·470	17·450	17·750	17·600
52·0	17·200	17·450	18·300	18·800	18·950					17·500	17·550	17·720	17·990
57·0	17·240	17·530	18·450	18·710	18·850					17·460	17·550	17·710	17·970
Therm.	81°0	80°8	81°0	82°2	83°2	84°7	85°0	84°6	84°5	84°5	84°7	84°2	83°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	6·48·30	5·14·00	1·27·20	−1·25·15	−1·49·25					4·33·70	3·46·90	2·35·10	2·28·50
8·0	6·30·90	4·44·20	1·19·90	−1·25·15	−1·49·25					4·33·70	3·46·90	2·35·10	2·40·30
13·0	6·14·80	4·36·00	1·10·80	−1·25·15	−2·30·00					4·33·70	3·38·00	2·25·40	2·40·30
18·0	6·14·80	4·26·50	1·01·10	−1·35·20	−2·37·10					4·33·70	3·38·00	2·18·00	3·01·40
23·0	6·14·80	4·15·00	0·26·00	−1·35·20	−2·37·10					4·33·70	3·33·85	2·18·00	3·01·40
28·0	6·14·80	3·44·30	0·04·10	−1·35·20	−2·37·10	−1·42·25		3·12·00	5·05·70	4·32·00	3·33·85	2·18·00	3·01·40
33·0	6·04·20	3·35·30	−0·09·50	−2·40·65	−2·37·10					4·32·00	3·22·70	2·18·00	3·01·40
38·0	6·04·20	3·35·30	−0·30·00	−2·40·65	−2·32·75					4·25·70	3·22·70	2·18·00	3·01·40
43·0	5·45·30	3·03·10	−0·42·10	−2·40·65	−2·32·75					4·13·10	3·22·70	2·18·00	2·41·10
48·0	5·38·10	3·03·10	−1·03·30	−2·05·40	−2·32·75					4·07·50	3·08·30	2·18·00	2·41·10
53·0	5·27·70	2·27·20	−1·08·30	−1·41·30	−2·32·75					4·02·40	2·44·10	2·28·50	2·10·40
58·0	5·14·00	2·06·80	−1·25·15	+1·49·25	−2·12·60	−0·43·90	2·03·00	3·49·40	4·42·50	3·46·90	2·44·10	2·28·50	2·10·40
Therm.	84°0	82°5	82°0	82°5	82°7	83°5	84°2	84°4	84°2	84°2	84°9	84°9	84°8

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH SEPTEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	18′65	18′70	17′18	15′71	13′94	12′37	11′85	12′83	14′93	15′56	15′30	14′57
5·0	18·65	18·65	17·08	15·56					14·99	15·61	15·25	14·62
10·0	18·75	18·65	16·82	15·45					14·99	15·66	15·14	14·67
15·0	18·91	18·65	16·61	15·30					14·99	15·66	15·04	14·73
20·0	18·96	18·39	16·50	14·99					15·04	15·66	14·99	14·88
25·0	19·01	18·23	16·30	14·99					15·25	15·66	14·93	14·99
30·0	19·06	18·13	16·14	14·78	13·16	11·85	12·37	14·20	15·45	15·71	14·67	15·04
35·0	19·11	18·06	16·04	14·73					15·51	15·61	14·52	15·14
40·0	19·17	17·86	15·87	14·47					15·51	15·61	14·47	15·19
45·0	19·06	17·60	15·92	14·20					15·51	15,51	14·47	15·09
50·0	18·96	17·48	16·04	14·14					15·51	15·51	14·47	14·99
55·0	18·91	17·34	16·04	13·94					15·56	15·45	14·52	14·93

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	22·600	23·000	23·530	23·800	24·020	23·750	23·400	23·090	22·840	22·720	22·830	23·090
7·0	22·600	23·000	23·620	23·760					22·800	22·700	22·840	23·050
12·0	22·600	23·000	23·670	23·700					22·800	22·700	22·900	23·020
17·0	22·600	23·000	23·760	23·700					22·800	22·700	22·940	23·000
22·0	22·620	23·100	23·840	23·730					22·730	22·690	22·950	22·970
27·0	22·670	23·140	23·910	23·850					22·750	22·690	22·980	23·000
32·0	22·700	23·200	24·000	23·900	24·050	23·600	23·330	22·920	22·790	22·680	23·000	23·020
37·0	22·750	23·260	24·130	23·930					22·780	22·690	23·020	23·100
42·0	22·790	23·310	24·250	23·970					22·780	22·670	23·050	23·250
47·0	22·800	23·370	24·200	24·000					22·800	22·720	23·090	23·380
52·0	22·840	23·400	23·940	24·000					22·800	22·800	23·100	23·480
57·0	22·900	23·470	23·890	24·050					22·780	22·800	23·090	23·400
Therm.	77°2	77°5	78°1	79°6	80°3	81°8	80°8		80°9	81°6	81°3	80°2

TERM HOUR OBSERVATIONS ON THE 30TH SEPTEMBER AND 1ST OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	16′378	16′653	16′068	15′108	13′219	12′188	12′394	12′944	13′837	14′523	13′974	13′493
5·0	15·348	16·447	16·658	15·966	15·108					13·837	14·523	13·906	13·493
10·0	15·553	16·481	16·789	15·966	14·660					13·906	14·454	13·906	13·562
15·0	15·623	16·584	16·721	15·966	14·592					13·906	14·454	13·906	13·493
20·0	15·691	16·584	16·721	15·897	14·528					13·974	14·351	13·906	13·493
25·0	15·725	16·584	16·653	15·794	14·288					14·008	14·317	13·837	13·493
30·0	15 897	16·549	16·653	15·794	13·974	12·876	12·583	12·876	13·734	14·076	14·249	13·700	13·493
35·0	16·034	16·515	16·653	15·623	13·906					14·213	14·179	13·700	13·493
40·0	16·102	16·653	16·584	15·348	13·734					14·283	14·179	13·630	13·493
45·0	16·068	16·653	16·481	15·348	13·562					14·351	14·042	13·562	13·493
50·0	16·206	16·653	16·447	15·348	13·562					14·523	14·042	13·562	13·493
55·0	16·309	16·653	16·136	15·211	13·219					14·523	14·042	13·425	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·150	18·010	18·470	19·100	19·350	19·550	19·150	18·880	18·660	18·310	17·990	17·800	17·800
7·0	18·150	18·060	15·550	19·150	19·400					18·310	17·990	17·810	17·800
12·0	18·150	18·095	18·560	19·150	19·450					18·300	18·000	17·800	17·790
17·0	18·105	18·130	18·640	19·100	19·500					18·250	18·000	17·790	17·790
22·0	18·055	18·150	18·680	19·150	19·450					18·205	17·950	17·790	17·790
27·0	18·090	18·150	18·740	19·200	19·550					18·195	17·920	17·790	17·750
32·0	18·055	18·220	18·850	19·250	19·550	19·250	19·050	18·800	18·500	18·170	17·900	17·790	17·750
37·0	18·060	18·250	18·850	19·250	19·550					18·100	17·900	17·790	17·750
42·0	18·100	18·300	18·950	19·295	19·550					18·095	17·900	17·800	17·740
47·0	18·085	18·330	19·990	19·300	19·550					18·100	17·890	17·800	17·750
52·0	18·000	18·350	19·050	19·350	19·550					18·030	17·850	17·800	17·750
57·0	17·990	18·460	19·060	19·400	19·450					18·020	17·810	17·800	17·740
Therm.	80°2	80°8	81°6	82°7	83°5	84°8	85°0	85°2	85°5	85°7	85°6	85°0	84°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	6·26·70	5·38·90	4·27·30	2·27·40	1·23·40					3·37·00	3·24·95	2·43·80	3·03·80
8·0	6·12·80	5·26·40	4·14·90	2·27·40	1·09·95					3·27·55	3·22·40	2·43·80	3·03·80
13·0	6·06·50	5·26·40	4·14·90	2·17·60	1·00·50					3·32·50	3·22·40	2·43·80	3·03·80
18·0	6·06·50	5·12·60	4·08·20	2·17·60	0·38·55					3·35·90	3·18·85	2·43·80	3·03·80
23·0	6·06·50	5·12·60	4·01·10	2·02·90	1·01·75					3·35·90	3·18·85	2·43·80	3·14·40
28·0	6·06·50	5·04·30	4·01·10	1·41·40	0·23·50	1·01·40	1·47·00	3·12·70	3·37·00	3·35·90	3·13·80	2·43·60	3·14·40
33·0	5·48·30	4·49·30	3·31·20	1·41·40	0·23·50					3·28·10	3·08·35	2·43·80	3·14·40
38·0	5·48·30	4·49·30	3·31 90	1·41·40	0·15·65					3·35·90	3·08 35	2·43·80	3·14·40
43·0	5·48·30	4·39·70	3·10·85	1·29·30	0·15·65					3·31·75	3·08·35	2·32·50	3·25·20
48·0	5·38·90	4·39·70	3·10·85	1·29·30	0·05·65					3·31·75	3·08·35	2·32·50	3·25·20
53·0	5·38·90	4·39·70	2·47·90	1·29·30	0·15·65					3·31·75	3·49·10	2·32·50	3·25·20
58·0	5·38·90	4·27·30	2·47·90	1·23·40	0·10·00	1·13·35	2·35·90	3·26·00	3·37·00	3·32·15	3·43·80	2·43·00	3·32·30
Therm.	82°3	81°5	81°5	82°0	82°5	83°5	84°0	84°5	85°3	86°2	86°5	86°5	85°9

TERM HOUR OBSERVATIONS ON THE 30TH SEPTEMBER AND 1ST OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.	°											
0·0	17·39	17·65	17·13	16·30	14·40	13·42	13·52	14·47	14·99	15·51	15·04	14·47
5·0	17·43	17·65	17·08	16·14					14·99	15·51	14·99	14·47
10·0	17·48	17·80	17·08	16·04					14·99	15·51	14·99	14·47
15·0	17·53	17·80	16·97	15·92					14·99	15·51	14·99	14·47
20·0	17·53	17·80	16·82	15·77					15·09	15·45	14·99	14·47
25·0	17·60	17·65	16·76	15·56					15·09	15·40	14·78	14·47
30·0	17·60	17·65	16·61	15·30	13·94	13·42	13·94	14·93	15·25	15·30	14·73	14·47
35·0	17·60	17·60	16·56	15·19					15·40	15·25	14·62	14·47
40·0	17·60	17·60	16·56	14·99					15·51	15·25	14·47	14·47
45·0	17·60	17·39	16·50	14·73					15·51	15·19	14·47	14·47
50·0	17·60	17·34	16·50	14·67					15·51	15·14	14·47	14·47
55·0	17·60	17·13	16·35	14·47					15·51	15·04	14·47	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	23·400	23·750	24·300	24·600	24·730	24·350	24·020	23·740	23·370	23·070	22·890	22·970
7·0	23·400	23·800	24·320	24·610					23·350	23·050	22·900	22·980
12·0	23·450	23·810	24·400	24·600					23·320	23·010	22·880	23·000
17·0	23·490	23·890	24·400	24·630					23·300	23·000	22·900	22·990
22·0	23·490	23·950	24·380	24·670					23·210	22·990	22·900	22·950
27·0	23·500	24·000	24·400	24·720					23·200	22·940	22·890	22·950
32·0	23·510	24·030	24·440	24·810	24·600	24·300	23·920	23·630	23·190	22·900	22·900	22·930
37·0	23·570	24·080	24·490	24·750					23·150	22·900	22·900	22·950
42·0	23·600	24·200	24·530	24·780					23·120	22·920	22·900	22·960
47·0	23·660	24·200	24·580	24·790					23·100	22·900	22·900	22·970
52·0	23·700	24·260	24·560	24·740					23·100	22·900	22·930	22·990
57·0	23·720	24·290	24·590	24·700					23·080	22·900	22·940	23·000
Therm.	77°3	77°8	78°2	79°7	80°3	82°0	82°4	82°6	83°2	83°7	83°1	82°0

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·592	15·691	16·102	14·936	14·249	12·188	11·845	12·772	14·249	14·867	14·660	13·906	13·253
5·0	14·832	15·897	16·102	14·936	14·249					14·936	14·626	13·700	13·287
10·0	14·936	15·897	15·966	14·936	13·940					14·936	14·592	13·630	13·287
15·0	15·074	15·966	15·760	14·936	13·734					14·936	14·660	13·562	13·355
20·0	14·936	15·966	15·691	14·936	13·562					14·936	14·438	13·425	13·355
25·0	15·280	15·966	15·623	14·936	13·562					14·936	14·420	13·287	13·355
30·0	15·280	15·966	15·553	14·936	13·527	11·845	11·845	13·700	14·660	14·936	14·420	13·253	13·493
35·0	15·348	16·034	15·623	14·762	13·355					14·936	14·249	13·253	13·493
40·0	15·485	16·102	15·290	14·592	12·876					14·936	14·111	13·219	13·493
45·0	15·519	16·172	15·004	14·592	12·876					14·798	13·974	13·219	13·493
50·0	15·553	16·102	15·004	14·249	12·428					14·867	13·974	13·219	13·562
55·0	15·623	16·102	14·936	14·249	12·188					14·728	13·906	13·253	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·220	18·160	18·500	18·950	19·350	19·350	19·250	18·910	18·550	18·250	18·170	18·200	18·200
7·0	18·210	18·200	18·550	18·950	19·350					18·210	18·160	18·220	18·200
12·0	18·200	18·210	18·590	19·000	19·350					18·210	18·150	18·250	18·180
17·0	18·180	18·270	18·600	19·000	19·350					18·200	18·160	18·250	18·180
22·0	18·200	18·300	18·660	19·050	19·350					18·200	18·160	18·250	18·190
27·0	18·160	18·310	18·710	19·100	19·350					18·200	18·170	18·260	18·150
32·0	18·100	18·350	18·730	19·150	19·400	19·350	19·150	18·740	18·380	18·190	18·190	18·300	18·150
37·0	18·100	18·390	18·750	19·190	19·350					18·190	18·200	18·260	18·160
42·0	18·100	18·400	18·800	19·200	19·400					18·175	18·190	18·230	18·160
47·0	18·110	18·410	18·800	19·200	19·350					18·165	18·190	18·210	18·150
52·0	18·110	18·480	18·850	19·350	19·400					18·160	18·200	18·210	18·110
57·0	18·140	18·500	18·900	19·400	19·350					18·150	18·200	18·200	18·150
Therm.	83°0	83°4	84°0	85°0	86°0	86°9	86°7	86°8	86°5	86°2	86°1	85°5	85°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	6·10·40	5·14·90	3·24·60	2·38·75	1·09·90					5·20·75	4·13·75	2·40·60	3·46·60
8·0	6·02·20	5·14·90	3·23·70	2·38·75	1·09·90					5·20·75	4·06·75	2·40·60	4·03·30
13·0	5·36·60	5·05·80	3·15·50	2·24·30	1·09·90					5·08·35	3·43·40	2·40·60	4·08·30
18·0	5·25·10	5·05·80	3·15·50	2·24·30	1·09·90					5·08·35	3·39·50	2·40·60	4·16·60
23·0	5·25·10	4·43·30	3·02·10	2·24·30	1·09·90					5·02·30	3·39·50	2·40·60	4·16·60
28·0	5·32·80	4·43·30	2·40·90	2·24·30	1·01·70	1·33·90	4·41·00	6·05·40	5·42·20	5·02·80	3·28·65	2·40·60	4·16·60
33·0	5·32·80	4·36·90	2·40·90	2·14·10	1·01·70					4·41·65	3·22·95	2·40·60	4·16·60
38·0	5·32·80	4·36·90	2·40·90	2·14·10	1·01·70					4·41·65	3·14·75	2·40·60	4·16·60
43·0	5·32·80	4·23·10	2·31·10	2·14·10	0·42·55					4·39·50	3·14·75	3·25·90	4·23·10
48·0	5·25·60	4·14·50	2·31·10	1·47·60	0·42·55					4·39·50	2·48·00	3·36·10	4·23·10
53·0	5·25·60	4·03·50	2·31·10	1·47·60	0·42·55					4·26·89	2·48·00	3·42·10	4·23·10
58·0	5·19·50	3·43·50	2·33·70	1·09·90	1·06·45	2·39·00	5·47·65	6·05·40	5·33·45	4·22·90	2·40·60	3·46·60	4·23·10
Therm.	84°8	83°8	84°0	84°5	85°4	85°5	86°0	86°4	86°6	86°6	86°7	86°5	86°3

TERM HOUR OBSERVATIONS ON THE 3RD AND 4TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16'56	17'02	16'04	15'25	13'42	12'63	14'14	15'40	15'66	15'51	14'52	14'09
5·0	16·71	17·02	16·04	15·04					15·71	15·51	14·47	14·14
10·0	16·82	16·82	16·04	14·99					15·66	15·51	14·47	14·20
15·0	16·97	16·82	16·04	14·83					15·71	15·51	14·47	14·20
20·0	16·97	16·66	16·04	14·73					15·82	15·40	14·40	14·30
25·0	16·97	16·61	15·92	14·47					15·87	15·35	14·25	14·35
30·0	16·97	16·56	15·77	14·47	12·90	12·90	14·68	15·71	15·92	15·19	14·20	14·30
35·0	17·02	16·45	15·61	14·25					15·92	15·04	14·20	14·35
40·0	17·08	16·35	15·51	13·94					15·87	15·04	14·14	14·40
45·0	17·03	16·09	15·51	13·98					15·77	14·99	14·14	14·47
50·0	17·08	16·04	15·40	13·68					15·56	14·88	14·09	14·47
55·0	17·08	16·04	15·61	13·42					15·56	14·67	14·04	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	23·800	23·980	24·480	24·360	24·875	24·500	24·180	23·740	23·480	23·480	23·590	23·700
7·0	23·800	24·020	24·460	24·350					23·460	23·490	23·600	23·700
12·0	23·800	24·100	24·470	24·340					23·430	23·470	23·610	23·700
17·0	23·800	24·100	24·500	24·370					23·450	23·465	23·650	23·700
22·0	23·820	24·140	24·540	24·310					23·500	23·480	23·670	23·700
27·0	23·880	24·200	24·570	24·310					23·470	23·500	23·690	23·700
32·0	23·850	24·230	24·600	24·310	24·750	24·450	23·980	23·520	23·490	23·500	23·700	23·720
37·0	23·890	24·280	24·620	24·300					23·500	23·500	23·700	23·770
42·0	23·900	24·300	24·650	24·300					23·500	23·500	23·700	23·750
47·0	23·920	24·380	24·690	24·310					23·500	23·510	23·700	23·720
52·0	23·910	24·400	24·800	24·790					23·500	23·540	23·700	23·700
57·0	23·950	24·410	24·900	24·800					23·490	23·550	23·710	23·680
Therm.	80°0	80°2	81°2	82°0	82°7	84°0	84°0	84°0	83°6	82°4	82°0	81°7

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	16′515	17′270	15′623	13′562	12′188	11′501	12′053	13′219	13′768	14′179	13′493	13′219
5·0	15·348	16·721	17·339	15·623	13·287					13·837	14·179	13·355	13·219
10·0	15·280	16·789	17·339	15·348	12·876					13·974	14·111	13·355	13·253
15·0	15·314	16·653	17·235	14·936	13·219					14·042	14·111	13·150	13·287
20·0	15·382	16·858	17·133	14·592	13·219					14·042	13·906	13·219	13·321
25·0	15·828	16·858	16·996	14·592	12·876					14·111	13·974	12·978	13·355
30·0	15·897	16·996	16·996	14·592	12·876	11·501	11·501	12·533	13·562	14·111	13·974	12·944	13·425
35·0	15·862	16·996	16·823	14·249	12·533					14·111	13·768	12·669	13·493
40·0	16·136	17·133	16·653	13·906	12·533					14·111	13·768	12·533	13·493
45·0	16·102	17·270	16·653	13·906	12·533					14·179	13·700	13·013	13·493
50·0	16·309	17·270	16·309	13·906	12·533					14·179	13·630	13·081	13·562
55·0	16·102	17·270	16·309	13·562	12·256					14·179	13·562	13·150	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·470	18·385	18·470	18·850	19·600	19·750	19·550	19·160	18·720	18·350	18·205	18·385	18·300
7·0	18·440	18·400	18·535	18·950	19·650					18·300	18·220	18·420	18·290
12·0	18·430	18·450	18·520	19·000	19·650					18·270	18·175	18·450	18·290
17·0	18·465	18·500	18·550	19·050	19·750					18·230	18·190	18·460	18·290
22·0	18·450	18·530	18·550	19·100	19·750					18·200	18·290	18·460	18·280
27·0	18·430	18·500	18·550	19·200	19·650					18·190	18·280	18·450	18·280
32·0	18·455	18·460	18·550	19·250	19·750	19·750	19·350	18·900	18·470	18·250	18·300	18·450	18·260
37·0	18·425	18·490	18·650	19·300	19·750					18·210	18·330	18·450	18·240
42·0	18·420	18·480	18·650	19·350	19·750					18·200	18·350	18·440	18·210
47·0	18·350	18·460	18·650	19·450	19·750					18·190	18·350	18·350	18·210
52·0	18·280	18·500	18·700	19·500	19·750					18·210	18·370	18·340	18·200
57·0	18·305	18·495	18·800	19·550	19·700					18·185	18·350	18·300	18·200
Therm.	81°0	81°4	82°9	84°0	84°8	85°0	85°6	86°0	86°3	86°5	86°3	85°7	84°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·08·10	4·40·40	2·41·30	−1·14·00	−1·08·20								
8·0	5·08·10	4·40·40	2·10·00	−1·14·00	−1·08·20					4·25·50	3·43·10	2·33·80	3·25·50
13·0	5·08·10	4·22·60	2·10·00	−1·14·00	−1·08·20					4·25·50	3·40·00	2·33·80	3·25·50
18·0	5·08·10	4·22·60	1·33·00	−1·35·00	−0·49·40					4·25·50	3·35·50	2·33·80	3·25·50
23·0	5·08·10	4·22·60	1·19·70	−1·35·00	−0·49·40					4·25·50	3·26·55	2·40·90	3·32·00
28·0	5·08·10	4·03·30	0·48·75	−1·35·00	−0·49·40	0·21·10	2·07·70	4·06·6	4·32·2	4·14·75	3·11·20	2·40·90	3·32·00
33·0	5·08·10	3·40·30	0·31·80	−1·35·00	−0·49·40					4·14·75	3·11·20	2·49·70	3·32·00
38·0	5·08·10	3·30·80	0·13·40	−1·35·00	−0·33·20					4·05·00	3·00·00	2·49·70	3·40·90
43·0	5·08·10	3·30·80	−0·09·00	−1·35·00	−0·33·20					4·10·00	3·00·00	2·49·70	3·40·90
48·0	5·08·10	3·14·10	−0·23·45	−1·21·20	−0·33·20					4·02·80	3·00·00	3·15·50	3·40·90
53·0	4·48·60	3·03·20	−0·23·45	−1·21·20	−0·24·30					4·02·80	2·40·30	3·15·50	3·47·00
58·0	4·40·40	2·41·30	−1·03·00	−1·08·20	−0·24·30	1·14·70	3·15·40	4·27·00	4·25·50	3·43·10	2·40·30	3·25·50	3·47·0
Therm.	84°0	82°6	83°0	83°5	84°5	84°7	85°0	85°5	86°2	86°8	87°0	86°5	86°4

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17·65	18·65	17·08	14·98	13·42	12·90	13·31	14·47	14·99	15·51	14·73	14·47
5·0	17·91	18·65	16·82	14·67					14·99	15·51	14·57	14·47
10·0	18·01	18·65	16·66	14·52					15·14	15·56	14·47	14·47
15·0	18·06	18·65	16·50	14·47					15·30	15·51	14·47	14·47
20·0	18·13	18·54	16·14	14·40					15·35	15·30	14·47	14·47
25·0	18·13	18·39	16·04	14·20					15·40	15·25	14·47	14·52
30·0	18·18	18·23	15·87	14·09	12·90	12·90	13·94	14·93	15·40	15·19	14·47	14·67
35·0	18·33	18·13	15·66	13·94					15·45	15·14	14·35	14·73
40·0	18·39	18·01	15·40	13·94					15·40	15·04	14·20	14·73
45·0	18·44	17·75	15·09	13·83					15·40	14·99	14·20	14·73
50·0	18·49	17·60	14·99	13·68					15·45	14·99	14·25	14·73
55·0	18·65	17·34	14·99	13·62					15·51	14·88	14·40	14·73

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	23·020	23·130	23·510	24·300	24·440	24·100	23·710	23·305	22·900	22·800	23·160	23·120
7·0	23·000	23·210	23·590	24·350					22·880	22·800	23·100	23·100
12·0	22·990	23·200	23·630	24·390					22·810	22·800	23·110	23·100
17·0	23·020	23·200	23·690	24·400					22·770	22·820	23·120	23·140
22·0	23·070	23·200	23·740	24·410					22·700	22·910	23·130	23·130
27·0	23·090	23·200	23·800	24·400					22·720	22·880	23·110	23·150
32·0	23·100	23·260	23·890	24·400	24·300	23·910	23·440	22·950	22·750	22·900	23·100	23·150
37·0	23·100	23·290	23·960	24·400					22·790	22·930	23·129	23·150
42·0	23·120	23·330	24·090	24·400					22·800	22·950	23·150	23·140
47·0	23·110	23·350	24·170	24·390					22·750	22·990	23·170	23·130
52·0	23·150	23·380	24·209	21·420					22·790	23·000	23·150	23·120
57·0	23·160	23·450	24·230	24·430					22·830	23·040	23·110	23·110
Therm.	78°2	79°6	80°0	80°4	81°9	82°2	83°0	83°3	83°7	83°4	83°1	82°0

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′342	16′755	17·064	15·966	14′249	11′345	12′189	13′355	13′630	14′386	14′386	13′493	13′150
5·0	15·211	16·789	16·996	15·966	14·008					14·249	14·249	13·425	13·150
10·0	15·348	16·858	16·926	15·691	13·974					14·523	14·179	13·287	13·081
15·0	15·485	16·926	15·858	15·621	13·562					14·249	14·249	13·081	13·150
20·0	15·657	17·064	16·789	15·623	13·562					14·008	14·111	13·081	13·150
25·0	15·760	17·064	16·721	15·416	13·287					14·179	14·042	13·081	13·253
30·0	15·966	17·064	16·653	14·936	13·219	12·533	12·944	13·630	13·974	14·249	13·906	13·081	13·253
35·0	15·966	17·064	16·653	14·936	12·876					14·179	13·906	13·081	13·287
40·0	16·206	17·064	16·653	14·936	12·601					14·042	13·837	13·013	13·355
45·0	16·378	17·064	16·653	14·249	12·601					14·042	13·837	13·081	13·425
50·0	16·481	17·064	15·966	14·283	12·533					14·111	13·768	13·081	13·425
55·0	16·653	17·064	15·966	14·249	12·256					14·111	13·562	13·150	13·562

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Nopn.	1h	2h
M. S.													
2·0	19·215	19·020	19·500	20·900	21·350	21·950	21·200	19·730	19·410	18·990	18·280	18·360	18·460
7·0	19·160	19·070	19·540	20·850	21·400					19·090	18·500	18·330	18·520
12·0	19·150	19·120	19·600	21·000	21·350					18·790	18·430	18·330	18·540
17·0	19·120	19·140	19·650	21·000	21·300					18·815	18·390	18·450	18·500
22·0	19·140	19·180	19·740	21·150	21·350					18·650	18·500	18·400	18·450
27·0	19·110	19·220	19·790	21·200	21·450					18·620	18·460	18·380	18·350
32·0	19·110	19·285	19·810	21·200	21·350	21·650	20·150	19·690	19·210	18·500	18·480	18·350	18·400
37·0	19·100	19·300	19·900	21·250	21·400					18·520	18·450	18·360	18·350
42·0	19·050	19·330	19·900	21·300	21·500					18·570	18·390	18·360	18·270
47·0	19·040	19·400	19·900	21·250	21·500					18·490	18·390	18·360	18·260
52·0	19·015	19·440	20·300	21·250	21·500					18·420	18·390	18·400	18·250
57·0	19·032	19·480	20·850	21·350	21·650					18·280	18·380	18·450	18·150
Therm.	81°8	82°0	82°8	84°0	85°2	85°2	85°5	85°8	85°8	86°0	85°8	85°0	84°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·25·50	4·26·35	2·26·50	−0·11·60	−1·10·00					3·13·75	3·13·40	2·10·90	2·27·60
8·0	5·19·00	4·26·35	2·17·40	−0·83·75	−1·10·00					3·09·96	2·40·60	2·10·90	2·40·00
13·0	5·10·30	4·12·10	2·17·40	−0·03·75	−1·10·00					3·27·50	3·12·20	2·44·50	2·45·30
18·0	5·10·30	4·04·00	1·49·50	−0·13·25	−1·10·00					3·03·30	3·06·75	2·02·00	3·08·80
23·0	5·10·30	3·45·00	1·39·10	−0·31·50	−1·10·00					3·22·60	2·36·70	2·06·30	3·17·50
28·0	5·10·30	3·38·40	1·39·10	−0·31·50	−1·10·00	−0·05·25	2·07·10	2·30·25	3·12·20	3·07·95	2·31·80	2·06·30	3·27·60
33·0	5·10·30	3·30·00	1·39·10	−0·46·50	−1·20·75					3·21·00	2·26·50	2·06·30	3·27·60
38·0	5·10·30	3·19·60	1·39·10	−0·46·50	−1·03·95					3·12·70	2·26·50	2·00·30	3·27·60
43·0	5·10·30	3·19·60	1·17·00	−0·46·50	−1·03·95					3·05·50	2·26·50	2·00·30	3·39·50
48·0	4·46·10	3·00·20	1·17·00	−0·46·50	−1·03·95					3·14·15	2·21·10	2·13·70	3·39·50
53·0	4·46·10	2·39·60	−0·36·20	−0·46·50	−1·18·90					3·14·15	2·15·20	2·13·70	3·39·50
58·0	4·33·90	2·39·60	−0·11·60	−1·10·00	−1·18·90	−0·22·85	2·47·50	2·49·45	3·24·20	3·29·60	2·10·90	2·27·60	4·05·50
Therm.	83°7	82°6	82°6	83°0	84°0	84°5	84°7	85°5	86°0	86°5	86°9	86°3	86°2

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17·60	17·91	16·86	14·99	12·90	13·42	14·47	14·99	15·30	15·35	14·47	13·94
5·0	17·65	17·86	16·86	14·99					15·09	15·14	14·20	13·99
10·0	17·80	17·86	16·71	14·73					15·25	15·25	13·99	13·94
15·0	17·66	17·86	16·56	14·62					15·40	15·19	13·94	13·99
20·0	17·91	17·75	16·40	14·47					15·14	14·99	13·94	13·99
25·0	17·96	17·65	16·14	14·25					15·19	14·99	13·94	14·20
30·0	17·91	17·65	16·04	14·04	13·052	13·94	14·73	14·99	15·25	14·88	13·94	14·20
35·0	17·96	17·60	15·92	13·94					15·19	14·73	13·94	14·25
40·0	17·96	17·53	15·56	13·83					15·09	14·73	13·99	14·40
45·0	17·96	17·48	15·45	13·68					15·04	14·57	14·04	14·47
50·0	18·01	17·08	15·30	13·42					15·09	14·47	13·94	14·47
55·0	17·96	16·76	15·09	13·26					15·35	14·47	13·94	14·47

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	24·040	24·480	26·060	26·580	27·100	26·000	24·350	24·020	23·690	22·870	23·070	23·390
7·0	24·070	24·500	26·000	26·600					23·500	23·020	23·100	23·380
12·0	24·100	24·510	26·090	26·595					23·460	23·000	23·200	23·400
17·0	24·100	24·570	26·150	26·600					23·420	23·000	23·200	23·320
22·0	24·150	24·640	26·240	26·630					23·240	23·140	23·190	23·280
27·0	24·170	24·700	26·330	26·620					23·200	23·100	23·150	23·230
32·0	24·190	24·750	26·400	26·670	26·750	24·850	24·325	23·800	23·090	23·130	23·120	23·290
37·0	24·240	24·800	26·430	26·710					23·110	23·120	23·150	23·220
42·0	24·300	24·790	26·490	26·760					23·080	23·050	23·190	23·150
47·0	24·310	24·750	26·500	26·680					23·060	23·040	23·210	23·170
52·0	24·380	24·720	26·520	26·600					23·000	23·070	23·270	23·140
57·0	24·400	26·000	26·600	26·800					22·900	23·100	23·300	22·960
Therm.	78°4	79°2	80°0	80°4	81°7	82°0	83°0	83°4	83°7	83°2	82°0	81°9

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′211	16′789	18′025	17′682	15′280	14′249	12′188	12′188	13′081	13′562	14′626	14′249	13′906
5·0	15·519	17·064	18·162	17·321	15·280					14·249	14·626	14·249	13·906
10·0	15·657	17·270	18·025	16·996	15·280					14·420	14·609	14·076	13·906
15·0	15·691	17·339	17·956	16·996	15·280					14·523	14·592	13·974	13·906
20·0	15·897	17·544	18·025	16·687	14·936					14·523	14·592	13·974	13·974
25·0	15·691	17·475	17·887	16·653	14·936					14·592	14·592	14·111	13·974
30·0	16·172	17·682	17·819	16·378	14·936	12·876	12·188	12·601	13·562	14·592	14·523	14·076	13·906
35·0	16·274	17·819	20·773	16·309	14·249					14·592	14·523	13·974	13·940
40·0	16·447	18·025	20·773	16·034	14·249					14·592	14·523	13·906	13·940
45·0	16·309	18·265	19·434	15·966	14·249					14·660	14·386	13·906	13·974
50·0	16·584	18·093	19·056	15·966	14·249					14·660	14·386	13·906	13·974
55·0	16·653	18·093	18·369	15·966	14·249					14·660	14·249	13·906	13·974

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·415	18·430	18·595	19·200	19·500	19·550	19·450	19·060	18·560	18·150	18·035	18·170	18·140
7·0	18·400	18·520	18·660	19·200	19·500					18·150	18·010	18·200	18·100
12·0	18·375	18·460	18·750	19·250	19·500					18·150	18·030	18·240	18·050
17·0	18·325	18·505	18·765	19·250	19·500					18·150	18·050	18·250	18·050
22·0	18·320	18·530	18·840	19·350	19·400					18·150	18·050	18·250	18·060
27·0	18·320	18·510	18·805	19·400	19·450					18·050	18·140	18·250	18·050
32·0	18·290	18·540	18·800	19·350	19·450	19·600	19·300	18·750	18·340	18·050	18·100	18·250	18·050
37·0	18·285	18·570	18·950	19·400	19·450					18·050	18·130	18·230	18·050
42·0	18·300	18·550	19·150	19·400	19·450					18·015	18·150	18·170	18·050
47·0	18·300	18·600	19·150	19·400	19·465					18·040	18·115	18·170	18·020
52·0	18·340	18·600	19·150	19·400	19·500					18·050	18·160	18·190	17·970
57·0	18·370	18·580	19·200	19·500	19·600					18·015	18·190	18·150	17·990
Therm.	82°3	82°2	83°5	85°4	87°0	87°4	87°8	88°2	88°4	88°5	88°0	86°9	86°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·09·10	5·18·20	4·10·30	−0·03·30	−1·02·60					3·18·80	2·37·00	2·11·35	3·05·40
8·0	5·23·70	5·18·20	3·41·60	−0·03·30	−1·25·30					3·18·80	2·21·40	2·11·35	3·05·40
13·0	5·23·70	5·18·20	3·26·70	−0·03·30	−1·25·30					3·18·80	2·21·40	2·11·35	3·14·60
18·0	5·30·60	5·13·20	3·26·70	−0·20·80	−1·25·30					3·01·00	2·11·35	2·11·35	3·14·60
23·0	5·30·60	5·18·20	3·09·60	−0·20·80	−1·25·30					3·01·00	2·11·35	2·11·35	3·14·60
28·0	5·30·60	5·06·00	2·49·60	−0·20·80	−1·25·30	−1·22·80	−0·28·70	2·22·00	3·21·90	3·01·00	2·11·35	2·22·10	3·14·60
33·0	5·40·00	5·06·00	4·19·70	−0·20·80	−1·25·30					3·01·00	2·11·35	2·21·20	3·14·60
38·0	5·40·00	4·46·20	4·22·60	−0·20·80	−1·38·50					2·44·50	2·11·35	2·21·20	3·14·60
43·0	5·40·00	4·46·20	1·07·00	−0·20·80	−1·38·50					2·44·50	2·11·35	2·30·60	3·14·60
48·0	5·29·60	4·34·80	0·26·80	−0·42·25	−1·49·00					2·44·50	2·11·35	2·38·10	3·25·90
53·0	5·24·00	4·24·00	0·26·80	−0·42·25	−1·49·90					2·37·00	2·11·35	2·47·80	3·25·90
58·0	5·18·20	4·24·00	−0·03·30	−1·02·60	−2·04·90	−0·33·65	1·39·40	3·05·10	3·18·80	2·37·00	2·11·35	2·47·80	3·25·90
Therm.	84°5	83°4	83°6	84°5	86°0	86°5	86°5	87°5	88°0	88°5	88°5	88°0	87°5

TERM HOUR OBSERVATIONS ON THE 10TH AND 11TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	18·06	19·37	19·17	17·28	15·25	13·42	13·68	14·47	15·56	15·97	15·51	15·04
5·0	18·18	19·32	18·65	17·08					15·61	15·92	15·51	15·04
10·0	18·33	19·27	18·59	16·97					15·56	15·82	15·45	15·04
15·0	18·39	19·22	18·33	16·61					15·56	15·82	15·40	15·04
20·0	18·59	19·22	18·18	16·61					15·66	15·77	15·40	15·09
25·0	18·65	19·22	18·06	16·56					15·77	15·77	15·35	15·09
30·0	19·06	19·22	17·80	16·50	14·20	13·68	13·94	14·99	15·67	15·71	15·25	15·14
35·0	19·11	19·22	17·65	16·40					15·92	15·66	15·19	15·14
40·0	19·17	19·27	17·65	16·14					15·92	15·56	15·04	15·19
45·0	19·22	21·10	17·53	16·04					15·92	15·51	14·99	15·25
50·0	19·22	20·32	17·39	15·82					15·97	15·56	14·99	15·25
55·0	19·32	19·70	17·13	15·45					15·97	15·66	14·99	15·26

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	22·590	22·300	22·680	22·990	23·100	23·050	22·920	22·540	22·340	22·300	22·490	22·540
7·0	22·620	22·310	22·710	23·000					22·350	22·300	22·500	22·550
12·0	22·630	22·340	22·790	23·000					22·370	22·310	22·520	22·540
17·0	22·670	22·400	22·780	23·000					22·390	22·330	22·550	22·530
22·0	22·610	22·410	22·770	22·920					22·370	22·350	22·530	22·550
27·0	22·540	22·400	22·740	22·950					22·320	22·390	22·540	22·540
32·0	22·470	22·490	22·700	22·970	23·150	22·900	22·650	22·320	22·300	22·400	22·550	22·510
37·0	22·430	22·570	22·730	22·960					22·300	22·410	22·580	22·500
42·0	22·400	22·790	22·800	22·990					22·300	22·440	22·590	22·480
47·0	22·370	22·700	22·800	23·000					22·300	22·490	22·600	22·460
52·0	22·390	22·700	22·800	23·000					22·300	22·500	22·610	22·440
57·0	22·360	22·700	22·960	23·020					22·320	22·500	22·570	22·430
Therm.	78°6	79°8	80°6	82°0	83°6	84°4	83°2	86°0	85°9	85°4	84°5	83°7

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′592	16′240	15′897	15′966	15′280	14′249	13′184	13′150	14′249	14′111	14′249	13′906	15′623
5·0	14·762	16·240	15·897	15·966	15·280					14·526	14·249	14·042	15·691
10·0	14·867	16·274	15·966	15·966	14·936					14·660	14·111	14·111	15·348
15·0	14·926	16·453	15·966	15·966	14·936					14·728	14·042	14·179	15·348
20·0	15·074	16·653	16·034	15·966	14·936					14·798	14·042	14·249	15·416
25·0	15·074	16·378	16·102	15·966	15·004					15·074	13·906	14·249	15·553
30·0	15·348	16·136	16·309	15·966	14·936	13·630	13·219	13·700	14·249	15·004	13·974	14·317	15·416
35·0	15·348	16·102	16·966	15·966	14·936					15·004	13·906	14·454	15·280
40·0	15·691	16·034	16·309	15·966	14·936					14·867	13·906	14·523	15·280
45·0	15·725	15·828	16·136	15·691	14·249					14·728	13·768	14·936	15·280
50·0	15·966	15·760	16·102	15·460	14·249					14·300	13·630	15·211	15·280
55·0	16·240	15·828	16·309	15·348	14·249					14·386	13·527	15·211	15·416

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·750	18·750	18·900	19·050	19·250	19·000	18·850	18·420	17·420	16·590	16·210	16·560	14·900
7·0	18·605	18·690	18·960	19·950	19·250					16·560	16·225	16·490	14·800
12·0	18·850	18·600	18·940	19·100	19·250					16·450	16·250	16·400	14·890
17·0	18·870	18·480	18·980	19·100	19·250					16·375	16·250	16·270	14·890
22·0	18·800	18·540	19·010	19·000	19·100					16·380	16·300	16·150	14·890
27·0	18·800	18·620	19·050	19·100	19·050					16·350	16·325	16·000	14·800
32·0	18·775	18·680	19·050	19·100	19·000	18·750	18·600	17·870	16·885	16·340	16·330	15·780	14·710
37·0	18·775	18·720	19·050	19·100	19·025					16·340	16·350	15·500	14·710
42·0	18·770	18·785	19·050	19·100	19·050					16·370	16·350	15·260	14·635
47·0	18·800	18·850	19·050	19·140	19·050					16·320	16·550	15·125	14·560
52·0	18·850	18·880	19·000	19·150	19·050					16·523	16·950	14·920	14·400
57·0	18·750	18·900	19·000	19·150	19·000					16·200	16·820	14·930	14·300
Therm.	83°5	84°0	84°8	86°0	87°5	88°5	89°0	89°4	90°0	90°4	89°7	88°7	88°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·10·50	4·30·00	3·08·10	1·06·65	0·22·40					2·27·70	1·24·90	2·21·50	3·45·50
8·0	4·46·90	4·25·60	2·41·40	1·06·65	0·05·65					2·33·60	1·24·90	3·03·90	3·29·30
13·0	4·46·90	4·25·60	2·41·40	1·06·65	0·05·65					2·27·05	1·17·75	3·03·90	3·16·50
18·0	4·46·90	4·35·40	2·27·80	1·06·65	0·05·65					2·27·05	1·14·30	3·03·90	3·16·50
23·0	4·46·90	4·12·90	2·17·90	1·06·65	0·28·00					2·27·05	1·14·30	3·18·40	3·16·50
28·0	5·02·60	3·31·90	2·04·70	1·06·65	0·28·00	1·04·40	1·31·05	2·33·20	2·18·80	2·20·00	1·14·30	3·18·40	3·16·60
33·0	5·02·60	3·31·90	1·40·15	0·43·75	0·28·00					2·15·80	1·14·30	3·37·30	3·16·50
38·0	5·02·60	3·31·90	1·40·65	0·43·75	0·28·00					2·01·80	1·23·70	3·37·30	3·05·30
43·0	5·08·10	3·17·50	1·40·65	0·43·75	0·13·50					1·48·60	1·23·70	3·37·30	3·11·70
48·0	4·48·30	3·08·10	1·40·65	0·43·75	0·13·50					1·29·75	1·35·00	4·01·80	3·11·70
53·0	4·48·30	3·08·10	1·20·50	0·33·55	0·13·50					1·29·75	1·12·90	3·45·50	3·23·00
58·0	4·39·80	3·08·10	1·06·65	0·22·40	0·13·50	1·04·40	1·42·70	2·45·50	2·02·30	1·24·90	2·21·50	3·45·50	3·30·70
Therm.	85°9	84°9	84°9	85°5	86°5	87°5	89°5	89°2	89°9	90°6	90°3	89°7	89°5

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17'18	16'92	17'08	16'50	15'35	14'47	14'47	15'51	15'40	15'25	14'78	16'56
5·0	17·28	16·87	17·02	16·40					15·61	15·25	14·99	16·56
10·0	17·34	17·08	16·92	16·24					15·77	15·09	14·99	16·24
15·0	17·48	17·08	16·82	16·09					15·97	15·04	15·14	16·30
20·0	17·39	17·08	16·92	16·14					16·04	14·99	15·19	16·30
25·0	17·34	17·08	16·97	16·09					16·04	14·99	15·25	16·24
30·0	17·18	17·08	16·82	16·04	14·99	14·47	14·99	15·51	16·04	14·99	15·40	16·30
35·0	17·08	17·18	16·76	15·97					16·04	14·88	15·56	16·24
40·0	17·08	17·02	16·82	15·82					15·97	14·83	15·82	19·19
45·0	16·82	17·08	16·61	15·71					15·82	14·57	16·04	16·24
50·0	16·87	17·08	16·56	15·56					15·51	14·25	16·09	16·30
55·0	16·87	17·08	16·50	15·45					15·45	14·47	16·40	16·45

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	23·500	23·300	23·300	23·480	23·040	22·300	21·640	20·980	20·480	20·230	20·700	18·840
7·0	23·420	23·360	23·300	23·500					20·420	20·260	20·490	18·790
12·0	23·360	23·310	23·300	23·430					20·330	20·290	20·330	18·870
17·0	23·200	23·350	23·290	23·460					20·340	20·300	20·300	18·900
22·0	23·200	23·400	23·300	23·300					20·320	20·320	20·190	18·840
27·0	23·230	23·420	23·300	23·300					20·300	20·350	20·000	18·780
32·0	23·250	23·400	23·300	23·300	22·300	21·980	21·300	20·670	20·290	20·370	19·810	18·720
37·0	23·290	23·400	23·340	23·290					20·300	20·380	19·430	18·650
42·0	23·310	23·400	23·370	23·270					20·300	20·490	19·250	18·600
47·0	23·350	23·400	23·380	23·210					20·300	20·650	19·030	18·480
52·0	23·340	23·350	23·390	23·130					20·290	21·100	18·900	18·320
57·0	23·330	23·300	23·400	23·100					20·280	20·900	18·890	18·190
Therm.	80°2	80°4	81°8	83°4	84°0	85°4	86°4	87°6	87°8	87°0	86°4	86°0

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′317	15′557	15′794	16′348	15′966	13′906	12′876	13′837	14′936	15′416	15′348	15′074	14′592
5·0	14·523	15·623	16·034	16·309	15·966					15·416	15·348	14·867	14·592
10·0	14·592	15·657	16·240	16·309	15·691					15·416	15·280	14·832	14·728
15·0	14·592	15·623	16·309	16·309	15·553					15·623	15·142	14·725	14·728
20·0	14·694	15·897	16·343	16·309	15·280					15·485	15·211	14·660	14·798
25·0	14·557	15·966	16·447	16·309	15·280					15·623	15·142	14·592	14·867
30·0	14·867	15·966	16·481	16·309	15·004	13·219	13·219	14·592	15·142	15·623	15·211	14·454	14·798
35·0	15·038	15·862	16·309	16·309	14·970					15·623	15·416	14·454	14·798
40·0	15·280	15·828	16·309	16·309	14·936					15·691	15·485	14·454	14·936
45·0	15·280	16·034	16·309	16·102	14·867					15·416	15·348	14·386	14·936
50·0	15·416	15·966	16·378	16·034	14·249					15·348	15·314	14·454	14·936
55·0	15·519	15·966	16·412	15·966	14·249					15·348	15·280	14·523	15·108

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·195	18·340	18·830	19·300	19·600	19·700	18·500	19·235	18·600	17·850	17·200	17·490	17·140
7·0	18·165	18·325	15·925	19·450	19·600					17·770	17·150	17·470	17·140
12·0	18·270	18·350	18·910	19·505	19·600					17·740	17·150	17·425	17·130
17·0	18·240	18·295	18·920	19·550	19·650					17·660	17·150	17·410	17·080
22·0	18·145	18·260	18·900	19·600	19·625					17·575	17·240	17·340	17·065
27·0	18·225	18·250	18·940	19·565	19·650					17·520	17·400	17·300	17·050
32·0	18·260	18·485	18·990	19·590	19·650	19·750	19·550	18·840	18·240	17·450	17·420	17·300	17·060
37·0	18·220	18·570	19·000	19·600	19·650					17·400	17·460	17·260	17·090
42·0	18·300	18·545	19·050	19·650	19·690					17·315	17·570	17·230	17·140
47·0	18·345	18·580	19·100	19·600	19·750					17·260	17·590	17·220	17·155
52·0	18·300	18·670	19·125	19·600	19·780					17·230	17·690	17·200	17·240
57·0	18·300	18·730	19·200	19·650	19·700					17·200	17·520	17·160	17·240
Therm.	82°2	82°3	83°0	84°0	85°5	87°5	87°0	86°9	86°5	86°5	86°2	85°8	85°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·24·60	5·24·50	3·36·90	3·00·40	1·37·90					2·40·50	2·25·50	2·25·10	3·34·50
8·0	5·31·60	5·24·50	3·33·90	2·25·60	1·18·50					2·39·60	2·25·50	2·05·00	3·47·90
13·0	5·31·60	5·17·20	3·33·90	2·26·60	1·01·30					2·17·90	2·25·50	2·11·00	3·47·90
18·0	5·31·60	5·17·20	3·32·70	2·15·05	1·01·30					2·17·90	2·25·50	2·11·00	4·11·10
23·0	5·31·60	5·17·20	3·32·70	2·01·20	1·01·30					2·17·90	2·18·10	2·11·00	4·11·10
28·0	5·31·60	5·02·30	3·32·70	2·01·20	1·01·30	-0·38·15		2·20·75	2·39·10	2·30·55	2·18·10	2·11·00	4·11·10
33·0	5·31·60	4·41·00	3·29·00	2·01·20	0·30·10					2·30·55	2·18·10	2·26·60	4·11·10
38·0	5·31·60	4·28·20	3·18·85	2·01·20	0·30·10					2·31·95	2·28·35	2·36·10	4·11·10
43·0	5·31·60	4·28·20	3·18·85	1·37·90	0·30·10					2·23·20	2·28·35	2·48·80	4·11·10
48·0	5·31·60	4·18·30	3·10·90	1·37·90	0·30·10					2·14·20	2·28·35	3·13·50	4·11·10
53·0	5·31·60	4·08·10	3·10·90	1·37·90	0·30·10					2·21·10	2·42·70	3·23·30	4·11·10
58·0	5·24·50	3·36·90	3·00·40	1·37·90	0·30·10	1·35·90	2·15·75	2·39·10	2·39·10	2·21·10	2·25·10	3·34·50	4·11·10
Therm.	84°5	83°4	83°0	83°5	84°5	85°5	86°3	86°4	86°3	86°5	86°6	86°2	86°5

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16·76	17·13	17·60	17·08	15·30	14·47	15·09	16·45	16·82	16·76	15·51	14·99
5·0	16·82	17·34	17·60	16·97					17·02	16·76	15·25	14·99
10·0	16·97	17·43	17·60	16·66					17·08	16·61	15·25	14·99
15·0	17·08	17·48	17·60	16·56					17·08	16·24	15·19	14·99
20·0	17·08	17·60	17·53	16·61					17·02	15·66	14·99	15·04
25·0	17·08	17·60	17·53	16·50					17·08	15·56	14·99	15·14
30·0	17·08	17·65	17·48	16·30	14·38	14·47	16·04	16·56	17·08	15·61	14·99	15·19
35·0	17·08	17·53	17·34	16·09					17·08	15·92	14·99	15·19
40·0	17·08	17·69	17·34	16·04					17·08	16·04	14·99	15·25
45·0	17·13	17·60	17·39	15·82					16·82	15·92	14·93	15·30
50·0	17·08	17·69	17·28	15·56					16·82	15·77	14·88	15·35
55·0	17·08	17·60	17·13	15·40					16·82	15·61	14·93	15·45

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	22·000	22·480	22·870	23·210	23·190	23·100	22·700	21·820	20·980	20·440	21·010	20·810
7·0	22·000	22·500	22·950	23·280					20·960	20·480	21·000	20·740
12·0	21·980	22·570	23·040	23·300					20·900	20·410	21·020	20·780
17·0	22·000	22·500	23·130	23·300					20·800	20·450	21·000	20·750
22·0	22·020	22·500	23·210	23·300					20·750	20·680	21·080	20·740
27·0	22·070	22·490	23·220	23·340					20·650	20·740	21·000	20·710
32·0	22·120	22·560	23·240	23·390	23·250	23·200	22·760	21·420	20·540	20·840	20·990	20·780
37·0	22·190	22·600	23·250	23·400					20·545	20·910	20·980	20·800
42·0	22·240	22·670	23·230	23·360					20·440	21·050	20·950	20·840
47·0	22·290	22·700	23·210	23·310					20·400	21·070	20·930	20·890
52·0	22·340	22·750	23·200	23·290					20·380	21·050	20·900	20·900
57·0	22·400	22·800	23·200	23·200					20·400	21·030	20·850	20·910
Therm.	78·0	78·2	79·6	80·0	81·2	82·2	82·5	82·4	82·5	82·8	82·5	82·1

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·867	15·485	15·623	14·936	14·592	14·213	14·354	15·623	15·485	15·553	14·386	13·630	13·768
5·0	15·004	15·553	15·623	14·936	14·798					15·230	14·249	13·562	13·940
10·0	15·004	15·623	15·485	14·798	14·936					15·004	14·249	13·527	13·974
15·0	15·142	15·691	15·416	14·626	14·592					14·867	14·179	13·425	13·974
20·0	15·004	15·623	15·485	14·694	14·592					14·936	14·179	13·355	14·008
25·0	15·280	15·623	15·485	14·626	14·762					14·798	14·111	13·355	14·179
30·0	15·280	15·628	15·416	14·626	14·592	14·351	14·592	15·966	15·760	14·728	13·630	13·287	14·179
35·0	15·211	15·623	15·348	14·660	14·592					14·592	13·906	13·355	14·249
40·0	15·211	15·553	15·348	14·901	14·420					14·592	13·837	13·493	14·317
45·0	15·211	15·587	15·362	14·592	14·249					14·523	13·837	13·493	14·523
50·0	15·348	15·628	15·211	14·592	14·249					14·386	13·837	13·527	14·523
55·0	15·416	15·587	14·936	14·592	14·249					14·357	13·837	13·768	14·523

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·250	18·250	18·560	19·985	19·100	18·850	18·650	17·830	17·410	17·080	17·080	17·110	16·850
7·0	18·250	18·250	18·580	19·050	19·050					17·100	17·100	17·070	16·850
12·0	18·250	18·235	18·595	19·050	18·960					17·110	17·060	17·040	16·860
17·0	18·260	18·250	18·650	19·050	19·000					17·150	17·065	16·970	16·850
22·0	18·250	18·250	18·690	19·150	19·000					17·140	17·050	17·000	16·850
27·0	18·250	18·250	18·750	19·150	18·900					17·180	17·080	16·985	16·810
32·0	18·250	18·260	18·760	19·190	18·900	18·750	18·450	17·640	17·150	17·170	17·100	16·985	16·795
37·0	18·250	18·300	18·800	19·150	18·850					17·180	17·060	16·960	16·715
42·0	18·250	18·300	18·850	19·140	18·800					17·150	17·105	16·930	16·650
47·0	18·260	18·350	18·850	19·150	18·750					17·120	17·110	16·920	16·620
52·0	18·250	18·450	18·897	19·150	18·755					17·100	17·100	16·910	16·550
57·0	18·250	18·445	18·900	19·200	18·750					17·100	17·105	16·890	16·510
Therm.	84°2	84°1	85°0	86°4	87°8	88°0	88°3	89°0	89°0	89°1	89°0	88°0	87°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·48·70	3·38·50	3·36·10	2·22·25	1·44·45					2·40·50	2·06·50	2·17·30	3·01·70
8·0	3·28·50	3·38·50	3·20·40	2·22·25	2·30·20					2·32·50	2·06·50	2·23·00	3·01·70
13·0	3·41·10	3·47·00	3·20·40	2·09·95	2·30·20					2·32·50	2·15·40	2·23·00	2·46·70
18·0	3·48·90	3·47·00	3·11·60	2·01·70	2·11·70					2·21·40	2·15·40	2·25·20	2·46·70
23·0	3·48·90	3·47·00	3·03·50	2·01·70	2·11·70					2·25·55	2·15·40	2·25·40	2·46·70
28·0	3·48·90	3·47·00	3·03·50	2·01·70	2·11·70	3·02·30	3·35·80	4·07·20	3·36·45	2·16·55	2·05·20	2·38·60	2·46·70
33·0	4·08·30	4·10·60	3·05·50	2·01·70	2·11·70					2·13·25	2·02·15	2·38·60	2·46·70
38·0	4·08·30	4·10·60	3·03·50	2·01·70	2·11·70					2·07·95	2·02·15	2·45·20	2·46·70
43·0	4·00·60	4·02·70	2·40·70	2·01·70	2·22·00					2·13·65	2·02·15	2·45·20	2·46·70
48·0	4·00·60	4·02·70	2·40·70	2·07·20	2·22·00					2·24·65	2·02·15	2·45·20	2·46·70
53·0	3·42·50	3·36·10	2·40·70	2·07·20	2·29·50					2·24·55	2·19·60	3·01·70	2·46·70
58·0	3·38·50	3·36·10	2·22·25	1·44·45	2·29·50	3·06·30	4·26·40	3·45·20	2·46·30	2·19·60	2·24·80	3·01·70	2·46·70
Therm.	86°4	85°0	85°0	85°5	86°0	86°6	87°1	87°7	88°3	88°7	88°8	88°0	88°4

TERM HOUR OBSERVATIONS ON THE 17TH AND 18TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16′04	16′30	15′56	15′45	14′99	14′99	16′56	16′30	16′40	14′99	14′47	14′40
5·0	16·09	16·24	15·51	15·51					16·14	14·93	14·35	14·47
10·0	16·30	16·24	15·51	15·66					15·97	14·99	14·20	14·47
15·0	16·45	16·24	15·45	15·66					15·71	14·93	14·09	14·62
20·0	16·40	16·09	15·40	15·40					15·56	14·85	13·94	14·83
25·0	16·35	16·04	15·51	15·35					15·51	14·73	13·94	14·93
30·0	16·30	16·09	15·51	15·25	14·99	15·51	16·56	16·56	15·45	14·62	13·94	14·88
35·0	16·30	16·09	15·51	15·30					15·35	14·57	13·94	14·93
40·0	16·30	16·04	15·51	15·25					15·30	14·52	13·94	14·99
45·0	16·30	16·04	15·45	15·25					15·25	14·47	14·09	14·99
50·0	16·30	15·92	15·45	15·19					15·14	14·47	14·20	14·99
55·0	16·30	15·77	15·40	15·04					15·04	14·47	14·35	15·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	22·320	22·340	22·320	22·900	22·490	22·400	21·400	20·920	20·800	20·920	21·000	20·660
7·0	22·350	22·370	22·850	22·320					20·890	20·920	20·980	20·660
12·0	22·300	22·400	22·880	22·750					20·910	20·900	20·920	20·650
17·0	22·270	22·400	22·930	22·700					20·940	20·900	20·900	20·610
22·0	22·240	22·450	23·000	22·650					20·990	20·900	20·870	20·600
27·0	22·210	22·510	22·990	22 650					21·000	20·930	20·850	20·590
32·0	22·200	22·570	22·980	22·590	22·450	22 100	21·280	20·820	21·000	20·950	20·810	20·540
37·0	22·210	22·600	22·930	22·520					21·000	20·980	20·790	20·500
42·0	22·210	22·610	22·900	22·440					21·000	20·990	20·750	20·470
47·0	22·230	22·620	22·890	22·400					21·000	21·000	20·710	20·420
52·0	22·280	22·740	22·890	22·400					20·940	21·000	20·690	20·400
57·0	22·300	22·800	22·890	22·400					20·930	21·000	20·640	20·390
Therm.	80°0	80°2	81°6	82°1	83°5	82°0	83°0	85°2	85°5	85°1	84°6	84°1

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15′280	17′133	18′098	17′612	15′966	14′936	14′249	14′592	14′936	14′936	14′111	13′768	13′150
5·0	15·416	17·133	18·162	17·612	15·966					14·936	14·111	13·700	13·150
10·0	15·382	17·270	18·231	17·339	15·966					14·936	14·042	13·562	13·081
15·0	15·628	17·270	18·266	17·064	15·691					14·798	14·042	13·493	13·355
20·0	15·760	17·373	18·059	16·996	15·623					14·660	14·042	13·425	13·493
25·0	15·966	17·475	18·025	16·996	15·623					14·660	13·974	13·287	13·562
30·0	16·240	17·475	17·956	16·996	15·553	14·592	14·249	14·523	15·074	14·592	13·906	13·287	13·700
35·0	16·378	17·716	18·025	16·977	15·280					14·523	13·837	13·287	13·700
40·0	16·447	17·750	18·025	16·653	14·936					14·488	13·837	13·219	13·768
45·0	16·653	17·819	17·750	16·309	14·936					14·454	13·837	13·219	13·837
50·0	16·653	17·819	17·682	16·378	14·936					14·317	13·837	13·219	13·837
55·0	16·996	17·956	17·682	15·966	14·936					14·249	13·837	13·184	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·150	18·050	18·580	18·800	19·100	19·050	18·850	18·500	18·200	17·900	17·810	17·860	17·860
7·0	18·130	18·090	18·650	18·840	19·100					17·900	17·840	17·880	17·835
12·0	18·150	18·100	18·680	18·850	19·050					17·900	17·830	17·890	17·810
17·0	18·200	18·200	18·720	18·900	19·050					17·880	17·830	17·900	17·800
22·0	18·190	18·260	18·750	18·850	19·050					17·870	17·840	17·900	17·790
27·0	18·175	18·300	18·800	18·900	19·050					17·840	17·850	17·900	17·770
32·0	18·165	18·350	18·800	18·950	19·050	19·050	18·700	18·390	18·050	17·820	17·840	17·900	17·760
37·0	18·145	18·410	18·800	18·950	19·060					17·820	17·860	17·900	17·750
42·0	18·050	18·480	18·800	18·950	19·100					17·805	17·860	17·900	17·750
47·0	18·020	18·500	18·800	18·950	19·100					17·830	17·860	17·900	17·750
52·0	18·010	18·500	18·800	18·960	19·050					17·820	17·860	17·890	17·740
57·0	18·040	18·550	18·800	19·050	19·050					17·820	17·860	17·870	17·750
Therm.	83°7	83°6	84°6	85°9	87°0	87°8	87°0	88°8	88°9	89°0	88°9	88°0	87°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·06·80	4·43·40	3·42·80	2·47·70	2·12·65					2·44·10	2·07·75	2·33·10	2·35·70
8·0	5·13·70	4·34·90	3·26·00	3·01·50	2·12·65					2·44·10	2·07·75	2·37·90	2·47·30
13·0	5·13·70	4·25·90	3·26·00	3·10·50	1·24·00					2·35·60	2·06·00	2·37·90	2·47·30
18·0	5·05·40	4·25·90	3·17·00	2·28·50	1·24·00					2·35·60	2·06·00	2·37·90	2·47·30
23·0	5·05·40	4·17·40	3·17·00	2·28·50	1·24·00					2·31·75	2·06·00	2·28·20	2·47·30
28·0	5·05·40	4·17·40	3·05·10	2·28·50	1·24·00	1·38·75	3·09·35	3·39·75	3·18·65	2·31·75	2·09·20	2·28·20	2·47·30
33·0	5·05·40	4·17·40	3·05·10	2·28·50	1·24·00					2·25·50	2·09·20	2·28·20	2·47·30
38·0	5·05·40	4·17·40	3·05·10	2·28·50	1·17·00					2·25·50	2·09·20	2·28·20	2·47·30
43·0	4·05·40	3·49·10	3·05·10	2·28·50	1·17·00					2·19·95	2·16·40	2·35·70	2·47·30
48·0	4·49·40	3·42·80	2·47·70	2·12·65	1·17·00					2·19·95	2·16·40	2·35·70	2·47·30
53·0	4·49·40	3·42·80	2·47·70	2·12·65	1·17·00					2·07·75	2·16·40	2·35·70	2·47·30
58·0	4·43·40	3·42·80	2·47·70	2·12·65	1·17·00	2·19·35	3·25·90	3·30·85	2·44·10	2·07·75	2·33·10	2·35·70	2·47·30
Therm.	86°0	84°5	84°5	85°0	85°9	86°5	87°0	87°5	88°2	88°7	88°3	88°4	88°4

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h 6	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17·34	18·65	18·06	16·61	15·51	15·25	15·51	15·77	15·61	14·99	14·09	13·88
5·0	17·48	18·30	17·91	16·56					15·61	14·88	14·94	13·94
10·0	17·60	18·35	17·75	16·24					15·56	14·78	13·99	13·90
15·0	17·65	18·91	17·60	16·04					15·51	14·73	13·94	14·04
20·0	17·86	18·80	17·60	15·77					15·40	14·67	13·94	14·09
25·0	18·06	18·70	17·60	15·92					15·40	14·47	13·94	14·20
30·0	18·13	18·65	17·60	16·09	15·25	15·25	15·51	15·77	15·35	14·47	13·83	14·20
35·0	18·18	18·49	17·48	16·04					15·30	14·47	13·83	14·20
40·0	18·33	18·39	17·34	16·04					15·25	14·40	13·78	14·25
45·0	18·39	18·28	17·18	15·97					15·09	14·35	13·68	14·20
50·0	18·39	18·13	16·87	15·77					15·04	14·20	13·68	14·35
55·0	18·39	18·13	16·82	15·66					14·99	14·14	13·73	14·35

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	22·360	22·540	22·640	22·730	22·700	22·390	22·100	21·890	21·600	21·600	21·770	21·820
7·0	22·360	22·600	22·650	22·780					21·600	21·600	21·780	21·850
12·0	22·360	22·600	22·700	22·800					21·600	21·650	21·800	21·810
17·0	22·320	22·600	27·710	22·850					21·600	21·650	21·820	21·800
22·0	22·300	22·600	22·700	22·900					21·610	21·650	21·850	21·780
27·0	22·380	22·620	22·720	22·870					21·600	21·710	21·850	21·750
32·0	22·400	22·650	22·720	22·830	22·550	22·300	21·990	21·700	21·600	21·720	21·860	21·750
37·0	22·410	22·600	22·720	22·810					21·600	21·730	21·850	21·750
42·0	22·450	22·600	22·710	22·800					21·600	21·720	21·860	21·720
47·0	22·490	22·600	22·730	22·800					21·600	21·760	21·870	21·750
52·0	22·500	22·600	22·750	22·790					21·600	21·750	21·880	21·750
57·0	22·510	22·610	22·740	22·750					21·600	21·760	21·850	21·750
Diurn.	7°4	7°9	8°7	8°9	8°8	8°2	8°8	9°2	8°6	8°2	8°8	8°0

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·249	15·348	16·172	15·280	13·562	13·219	14·592	14·025	14·832	15·142	14·592	13·630	13·734
5·0	14·249	15·450	16·172	15·280	13·562					15·071	14·188	13·562	13·768
10·0	14·283	15·657	16·102	14·936	13·562					15·074	14·386	13 562	13·763
15·0	14·454	15·708	16·034	14·630	13·562					15·004	14·317	13·562	13·802
20·0	14·454	15·828	15·966	14·592	13·562					15·004	14·317	13·493	13·768
25·0	14·728	15·862	15·966	14·592	13·562					14·936	14·317	13·355	13·768
30·0	14·798	15·966	15·966	14·592	13·219	13·876	13·562	14·523	15·416	14·867	14·179	13·355	13·802
35·0	14·936	15·966	15·794	14·523	13·219					14·936	14·111	13·355	13·802
40·0	14·936	15·966	15·623	14·249	13·047					14·728	13·974	13·493	13·837
45·0	15·074	15·966	15·587	14·249	13·150					14·660	13·905	13·493	13·837
50·0	15·211	16·034	15·553	13·906	13·287					14·660	13·837	13·562	13·837
55·0	15·280	16·102	15·553	13·906	13·219					14·592	13·837	13·630	13·837

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·000	19·000	19·490	19·750	20·125	20·000	19·850	19·350	19·000	18·600	18·360	18·210	17·950
7·0	19·040	19·050	19·470	19·750	20·100					18·525	18·390	18·210	17·950
12·0	19·050	19·060	19·450	19·850	20·100					18·510	18·390	18·210	17·950
17·0	19·060	19·085	19·490	19·900	20·050					18·490	18·300	18·200	17·850
22·0	19·080	19·130	19·520	19·900	20·050					18·460	18·310	18·190	17·850
27·0	19·075	19·150	19·550	19·900	20·050					18·420	18·300	18·190	17·790
32·0	19·005	19·190	19·550	20·000	20·050	20·000	19·650	19·150	18·760	18·490	18·300	18·160	17·700
37·0	19·025	19·250	19·600	20·000	20·050					18·340	18·290	18·150	17·660
42·0	19·010	19·300	19·600	20·000	20·050					18·360	18·290	18·130	17·740
47·0	19·020	19·350	19·650	20 100	20·100					18·350	18·280	18·050	17·750
52·0	18·955	19·380	19·650	20·000	20·050					18·350	18·250	18·040	17·750
57·0	18·910	19·420	19·700	20·000	20·000					18·330	18·220	18·080	17·760
Therm.	82°7	83°0	84°0	86°0	86°0	87°0	87°3	87°5	87°6	87·6	87°0	86°2	85°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	5·05·50	4·36·70	2·43·10	0·48·50	1·11·00					2·36·85	1·34·25	1·45·60	2·44·60
8·0	4·41·00	4·29·20	2·28·50	0·48·50	1·11·00					2·36·85	1·34·25	1·45·60	3·04·40
13·0	4·28·00	4·29·20	2·17·40	1·11·00	1·11·00					2·28·15	1·34·30	2·05·80	3·04·40
18·0	4·28·00	4·29·20	2·05·30	1·11·00	1·11·00					2·21·85	1·34·30	2·05·80	3·04·40
23·0	4·28·00	4·11·50	1·42·60	1·11·00	1·11·00					2·21·85	1·34·30	2·05·80	3·04·40
28·0	4·36·70	4·05·00	1·42·60	1·11·00	1·11·00	2·07·80	3·27·75	3·38·65	3·16·80	2·11·00	1·34·30	2·05·80	3·04·40
33·0	4·36·70	3·42·10	1·31·80	1·11·00	1·11·00					2·11·00	1·38·50	2·22·60	3·04·40
38·0	4·36·70	3·36·50	1·34·80	1·11·00	1·11·00					2·05·40	1·38·50	2·22·60	3·04·40
43·0	4·36·70	3·24·60	1·19·00	1·11·00	1·11·00					2·05·40	1·38·50	2·36·30	2·47·80
48·0	4·36·70	3·17·15	1·19·00	1·11·00	1·00·60					2·05·40	1·38·50	2·36·30	2·47·80
53·0	4·36·70	3·04·20	1·35·90	1·11·00	1·00·60					1·44·83	1·38·50	2·44 60	2·47·80
58·0	4·36·70	2·43·10	0·48·50	1·11·00	1·11·20	2·42·75	3·38·65	3·39·80	2·38·90	1·34·25	1·45·60	2·44·60	2·47·80
Therm.	85°3	83°9	83°9	84°0	84°7	86°0	86°5	86°7	87°5	88°0	88°0	87°5	87°5

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16'04	16'61	15'61	14'47	14'09	14'47	14'99	16'04	16'14	15'51	14'47	14'47
5·0	16·04	16·61	15·56	14·47					16·09	15·45	14·47	14·47
10·0	16·19	16·56	15·51	14·47					16·09	15·25	14·47	14·47
15·0	16·40	16·56	15·45	14·47					16·04	15·25	14·40	14·47
20·0	16·40	16·56	15·25	14·47					15·97	15·25	14·40	14·47
25·0	16·45	16·56	15·09	14·47					15·92	15·19	14·25	14·52
30·0	16·60	16·45	14·99	14·35	13·94	14·47	15·51	16·400	15·77	15·04	14·20	14·57
35·0	16·56	16·30	14·88	14·25					15·77	14·99	14·35	14·57
40·0	16·56	16·24	14·78	14·20					15·71	14·99	14·40	14·52
45·0	16·56	16·04	14·73	14·20					15·66	14·73	14·40	14·52
50·0	16·66	15·92	14·67	14·20					15·51	14·73	14·40	14·47
55·0	16·61	15·77	14·52	14·14					15·51	14·52	14·47	14·52

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	22·850	23·200	23·560	23·810	23·100	22·800	22·500	22·090	21·540	21·320	21·290	21·240
7·0	22·900	23·240	23·610	23·720					21·520	21·380	21·300	21·200
12·0	22·900	23·250	23·640	23·660					21·500	21·350	21·280	21·190
17·0	22·920	23·290	23·650	23·590					21·500	21·340	21·270	21·140
22·0	22·950	23·300	23·690	23·510					21·450	21·360	21·300	21·090
27·0	22·990	23·300	23·700	23·440					21·400	21·320	21·310	21·050
32·0	23·020	23·350	23·710	23·390	23·060	22·750	22·200	21·720	21·400	21·320	21·300	21·000
37·0	23·050	23·370	23·730	23·360					21·390	21·300	21·300	20·920
42·0	23·070	23·416	23·700	23·300					21·350	21·300	21·300	20·950
47·0	23·100	23·450	23·700	23·290					21·340	21·300	21·290	20·990
52·0	23·150	23·490	23·750	23·210					21·310	21·300	21·270	21·020
57·0	23·210	23·520	23·800	23·150					21·310	21·300	21·250	21·080
Therm.	79°9	80°2	81°3	82°0	82°1	83°0	84°0	84°4	84°3	84°2	84°0	83°4

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	14′901	16′515	18′299	17′682	15′966	13′906	13′562	14′145	14′936	15′280	14′832	14′454	14′317
5·0	15·108	16·687	18·299	17·682	15·623					15·280	14·970	14·454	14·336
10·0	15·280	16·858	18·231	17·682	15·623					15·250	14·936	14·356	14·454
15·0	15·382	17·098	18·162	17·509	15·314					15·211	14·798	14·317	14·592
20·0	15·485	17·133	18·162	17·339	14·936					15·211	14·832	14·249	14·592
25·0	15·587	17·407	18·369	16·996	14·867					15·142	14·832	14·179	14·592
30·0	15·691	17·646	18·001	16·996	14·592	13·493	13·562	14·592	15·108	15·038	14·762	14·179	14·728
35·0	15·760	17·612	18·196	16·996	14·249					14·936	14·660	14·111	14·728
40·0	15·897	17·682	18·025	16·755	14·249					14·867	14·660	14·111	14·793
45·0	16·240	17·319	18·025	16·309	14·249					15·169	14·592	14·179	14·793
50·0	16·309	17·956	18·025	16·309	13·906					14·936	14·592	14·179	14·798
55·0	16·378	17·956	17·956	15·966	13·906					15·004	14·592	14·317	14·798

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·000	16·920	17·350	17·750	18·300	18·605	18·350	17·750	17·350	17·100	16·940	16·980	16·960
7·0	17·000	16·950	17·410	17·750	18·350					17·060	16·940	16·990	16·950
12·0	17·015	16·940	17·450	17·840	18·400					17·060	16·920	16·980	16·920
17·0	17·000	16·960	17·470	17·850	18·400					17·040	16·925	16·970	16·920
22·0	17·000	17·000	17·560	17·850	18·450					17·020	16·950	16·970	16·960
27·0	16·950	17·050	17·550	17·950	18·500					17·005	16·950	16·960	16·930
32·0	16·950	17·135	17·600	17·950	18·550	18·450	18·050	17·560	17·200	16·995	16·925	16·950	16·920
37·0	16·950	17·195	17·650	17·990	18·600					16·960	16·940	16·950	16·905
42·0	16·950	17·200	17·650	18·150	18·650					16·955	16·960	16·950	16·900
47·0	16·940	17·240	17·690	18·150	18·650					16·950	16·950	16·930	16·960
52·0	16·900	17·275	17·700	18·150	18·650					16·930	16·930	16·930	16·860
57·0	16·900	17·340	17·705	18·250	18·650					16·920	16·930	16·930	16·870
Therm.	84°8	84°6	85°3	87°0	88°0	88°8	89°5	90°0	90°0	90°4	89°8	89°0	88°6

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t. d	t. d	t. d	t. d	t. d	t. d	t. d	t. d	t. d	t. d	t. d	t. d	t. d
M. s.													
3·0	6·20·10	5·41·20	3·49·10	1·08·30	-0·06·05					3·32·25	3·00·25	2·27·80	3·02·10
8·0	6·25·00	5·26·30	3·23·00	1·08·30	-0·06·05					3·30·45	2·44·54	2·20·90	3·12·80
13·0	6·17·50	5·27·30	3·23·00	0·42·80	-0·07·90					3·31·00	2·41·30	2·20·90	3·12·80
18·0	6·07·00	5·37·30	2·49·90	0·42·80	-0·11·65					3·27·75	2·41·10	2·20·90	3·12·80
23·0	6·07·00	5·22·70	2·41·75	0·28·70	-0·11·65					3·27·75	2·41·01	2·14·10	3·12·80
28·0	6·07·00	5·08·90	2·20·90	0·28·70	-0·12·60	1·25·00	3·15·00	4·25·50	3·48·4	3·23·00	2·36·50	2·14·10	3·12·80
33·0	6·07·00	4·45·60	2·22·15	0·15·60	-0·12·60					3·20·50	2·36·50	2·26·20	3·12·80
38·0	6·00·90	4·35·60	2·22·15	0·15·60	-0·06·85					3·20·50	2·27·80	2·26·20	3·12·80
43·0	6·00·90	4·35·60	2·01·80	0·01·60	-0·06·85					3·18·00	2·27·80	2·37·20	3·20·90
48·0	6·00·90	4·25·60	2·01·80	0·01·60	-0·06·55					3·13·75	2·27·80	2·37·20	3·20·90
53·0	6·00·90	4·09·80	1·35·00	-0·04·15	-0·06·85					3·13·85	2·27·80	3·02·10	3·20·90
58·0	5·41·20	3·49·10	1·26·40	-0·04·15	0·19·35	2·21·40	4·04·25	4·25·90	3·36·60	3·07·50	2·27·80	3·02·10	3·15·60
Therm.	87°4	86°8	86°5	86°0	86°6	87°7	89°5	89°5	90°2	90°5	90°5	89°0	90°0

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	17·43	19·11	18·54	16·66	14·83	14·47	15·51	16·04	16·30	16·04	15·51	15·25
5·0	17·53	19·17	18·49	16·56					16·30	16·04	15·51	15·40
10·0	17·65	19·06	18·33	16·35					16·30	16·04	15·45	15·45
15·0	18·01	19·06	18·13	16·14					16·24	15·97	15·45	15·51
20·0	18·13	19·11	18·13	16·04					16·09	15·97	15·30	15·51
25·0	18·28	19·17	18·06	15·87					16·04	15·92	15·14	15·51
30·0	18·39	18·91	17·80	15·56	14·47	14·99	16·04	16·30	16·04	15·77	14·99	15·56
35·0	18·54	18·91	17·60	15·40					16·04	15·71	14·99	15·71
40·0	18·65	18·80	17·43	15·25					16·04	15·58	15·04	15·77
45·0	18·65	18·75	17·28	14·99					16·04	15·51	15·14	15·77
50·0	18·65	18·65	17·08	14·99					16·04	15·51	15·19	15·77
55·0	18·91	18·65	16·82	14·99					16·04	15·51	15·25	15·77

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	19·900	19·950	20·460	21·080	21·110	20·600	20·100	19·610	19·490	19·220	19·390	19·650
7·0	19·910	19·970	20·510	21·090					19·430	19·200	19·380	19·650
12·0	19·900	19·980	20·580	21·100					19·460	19·150	19·380	19·640
17·0	19·900	19·990	20·610	21·120					19·370	19·200	19·390	19·670
22·0	19·900	20·000	20·640	21·150					19·380	19·230	19·400	19·710
27·0	19·920	20·000	20·700	21·170					19·320	19·240	19·440	19·700
32·0	19·930	20·110	20·780	21·150	20·990	20·400	19·900	19·550	19·300	19·250	19·490	19·700
37·0	19·900	20·150	20·800	21·130					19·290	19·290	19·560	19·720
42·0	19·890	20·200	20·890	21·110					19·250	19·300	19·550	19·700
47·0	19·880	20·240	20·950	21·150					19·250	19·300	19·590	19·690
52·0	19·900	20·300	20·980	21·160					19·240	19·330	19·610	19·700
57·0	19·930	20·390	21·070	21·120					19·250	19·380	19·640	19·700
Therm.	81°6	81°9	82°0	83°4	84°0	86°0	86°8	86°8	87°4	87°8	86°3	86°0

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH OCTOBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′626	16′172	16′996	16′996	15′623	14′936	15′004	14′008	14′145	14′539	14′111	12′669	12′806
5·0	14·694	16·378	16·996	16·926	15·623					14·660	14·179	12·533	12·876
10·0	14·936	16·481	16·996	16·823	15·623					14·660	13·906	12·463	12·944
15·0	14·936	16·240	16·926	16·447	15·623					14·660	13·974	12·601	13·150
20·0	15·108	16·412	16·996	16·515	15·623					14·660	13·974	12·394	13·219
25·0	15·074	16·447	17·201	16·515	15·623					14·660	13·493	12·463	13·219
30·0	15·211	16·549	17·339	16·412	15·553	14·762	14·660	14·592	14·213	14·592	13·493	12·326	13·287
35·0	15·416	16·515	17·339	16·309	15·280					14·660	13·219	12·222	13·425
40·0	15·382	16·721	17·064	16·172	14·970					14·694	13·219	12·703	13·639
45·0	15·825	16·858	16·996	15·966	14·936					13·639	12·944	12·703	13·768
50·0	15·966	16·858	16·996	15·966	15·280					13·700	12·669	12·876	13·837
55·0	15·966	16·996	16·996	15·966	14·936					13·940	12·669	12·738	13·974

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·100	18·130	18·350	18·555	18·750	19·100	18·850	18·380	18·210	17·850	18·820	19·150	18·220
7·0	18·170	18·180	18·400	18·600	19·000					17·830	18·650	19·150	18·010
12·0	18·125	18·235	18·440	18·650	19·000					17·800	18·560	19·100	17·910
17·0	18·225	18·340	18·400	18·750	18·950					17·480	18·850	19·050	17·685
22·0	18·220	18·365	18·450	16·750	18·950					17·850	18·800	18·980	17·760
27·0	18·175	18·370	18·400	18·800	18·950					17·860	18·990	18·725	17·700
32·0	18·225	18·430	18·450	18·750	18·950	19·100	18·625	18·340	18·040	17·950	19·000	18·700	17·675
37·0	18·265	18·400	18·400	18·750	18·950					18·010	19·050	18·610	17·500
42·0	18·175	18·400	18·450	18·750	19·050					17·950	19·090	18·775	17·450
47·0	18·180	18·350	18·550	18·750	19·050					19·190	19·250	18·640	17·300
52·0	18 120	18·800	18·550	18·750	19·100					19·200	19·250	18·350	17·250
57·0	18·150	18·330	18·550	18·810	19·100					19·150	19·240	18·250	17·150
Therm.	82°6	82°8	84°0	86°1	87°0	87°4	87°6	87°6	88°0	88°0	88°0	87°0	86°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·23·00	4·13·80	2·44·30	1·06·55	0·22·70	0·10·50				1·39·50	1·48·40	1·17·30	2·47·00
8·0	4·23·00	4·01·40	2·29·20	1·06·55	0·04·35					1·39·50	1·39·80	1·30·50	2·36·30
13·0	4·13·10	3·36·60	2·24·90	0·35·80	0·04·35					1·39·50	1·23·50	1·39·20	2·36·30
18·0	4·13·10	3·28·60	2·24·90	0·35·80	0·04·35					1·37·00	1·23·50	1·39·20	2·36·30
23·0	4·13·10	3·22·70	2·14·80	0·35·80	0·12·60					2·13·50	1·08·60	1·39·20	2·36·30
28·0	4·13·10	3·22·70	2·14·80	0·35·80	0·12·60	1·11·90	2·05·00	2·05·05	1·40·00	2·19·50	1·05·50	1·39·20	2·36·30
33·0	4·13·10	3·10·20	1·42·10	0·45·90	0·12·60					2·13·50	1·05·50	2·07·80	2·24·00
38·0	4·19·60	3·18·70	1·42·10	0·45·90	0·03·00					2·13·50	1·05·50	2·07·80	2·24·00
43·0	4·19·60	3·18·70	1·21·50	0·45·90	0·03·00					1·47·50	1·16·40	1·41·30	2·32·80
48·0	4·19·60	3·18·70	1·13·65	0·45·90	0·03·00					0·11·0	1·06·50	2·26·80	2·32·80
53·0	4·19·60	3·13·00	1·13·65	0·33·75	0·10·50					1·09·70	1·17·30	2·35·00	2·28·00
58·0	4·13·80	3·13·00	1·06·55	0·22·70	0·10·50	1·45·70	2·10·40	1·40·00	1·40·00	1·29·50	1·17·30	2·47·00	2·28·00
Therm.	85°5	84°0	84°1	84°6	85°5	86°5	87°0	87°5	88°0	88°5	89°1	88°2	88°3

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH OCTOBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	17′18	17′86	17′60	16′56	15′56	16′04	15′04	15′51	15′51	14′99	13′42	13′68
5·0	17·23	17·86	17·48	16·56					15·51	14·99	13·42	13·94
10·0	17·23	17·86	17·34	16·50					15·51	14·73	13·42	13·83
15·0	16·97	17·91	17·28	16·45					15·51	14·73	13·42	13·99
20·0	17·02	17·91	17·13	16·30					15·51	14·52	13·42	14·20
25·0	17·23	18·01	17·13	16·30					15·51	14·20	13·42	14·20
30·0	17·28	18·01	17·08	16·30	15·51	15·56	15·82	14·93	15·51	14·20	13·42	14·35
35·0	17·34	17·96	17·02	16·14					15·51	13·99	13·42	14·47
40·0	17·53	17·86	17·08	16·04					15·51	13·94	13·42	14·47
45·0	17·60	17·86	16·97	15·92					13·68	13·68	13·42	14·73
50·0	17·60	17·75	16·82	15·82					14·47	13·62	13·42	14·88
55·0	17·86	17·60	16·66	15·77					14·88	13·42	13·47	14·99

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	20·270	20·440	20·730	20·760	20·910	20·750	20·530	20·400	19·910	21·300	21·840	20·750
7·0	20·260	20·490	20·780	20·840					19·900	21·140	21·750	20·600
12·0	20·310	20·500	20·820	20·910					19·890	21·400	21·630	20·450
17·0	20·350	20·500	20·890	20·980					19·900	21·400	21·510	20·210
22·0	20·400	20·500	20·920	20·930					19·950	21·300	21·400	20·300
27·0	20·400	20·490	20·980	20·860					20·030	21·440	21·350	20·110
32·0	20·480	20·510	20·900	20·810	21·000	20·650	20·440	20·220	20·110	21·600	21·240	20·200
37·0	20·460	20·510	20·880	20·870					20·160	21·700	21·180	20·000
42·0	20·410	20·580	20·810	20·890					20·150	21·820	21·100	19·840
47·0	20·400	20·620	20·810	20·900					21·500	21·900	20·970	19·760
52·0	20·400	20·680	20·810	20·920					21·700	21·930	20·860	19·710
57·0	20·400	20·710	20·780	20·920					21·480	21·950	20·780	19·600
Therm.	78°2	79°9	80°1	82°0	83°5	84°0	84°0	85°5	85°6	86°4	85°2	84°0

TERM HOUR OBSERVATIONS ON THE 31ST OCTOBER AND 1ST NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′970	15′553	16′309	15′966	15′623	14′936	14′936	15′245	15′004	14′592	15′740	14′249	14′042
5·0	15·004	15·623	16·240	15·966	15·280					14·592	14·728	14·042	14·111
10·0	15·004	15·623	16·240	15·897	15·280					14·867	14·660	14·042	14·179
15·0	15·004	15·623	16·172	15·897	15·280					14·936	14·654	13·837	14·179
20·0	15·004	15·623	16·102	15·966	15·280					14·970	14·420	13·734	14·042
25·0	15·280	15·623	15·966	15·966	15·280					15·108	14·454	13·700	13·940
30·0	15·280	15·691	15·828	15·691	15·004	14·592	14·936	15·108	15·004	15·280	14·249	13·630	14·111
35·0	15·416	15·966	15·623	15·348	15·004					15·348	14·249	13·562	14·249
40·0	15·416	15·966	15·623	15·450	14·936					15·348	14·249	13·365	14·042
45·0	15·348	15·966	15·691	15·450	14·936					15·348	14·179	13·425	14·042
50·0	15·553	16·172	15·897	15·553	14·936					15·348	14·179	13·630	14·317
55·0	15·553	16·240	15·966	15·623	14·936					15·211	14·249	13·906	14·557

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·500	18·460	18·580	18·800	18·950	18·950	18·750	18·400	18·340	18·030	17·720	17·320	16·610
7·0	18·500	18·460	18·560	18·840	18·950					18·030	17·590	17·330	16·450
12·0	18·500	18·450	18·560	18·850	18·975					17·900	17·525	17·320	16·270
17·0	18·500	18·500	18·570	18·850	19·000					17·890	17·625	17·400	16·120
22·0	18·510	18·500	18·600	18·850	18·950					17·940	17·575	17·440	16·000
27·0	18·500	18·550	18·600	18·850	18·950					17·900	17·575	17·360	15·550
32·0	18·470	18·550	18·600	18·950	18·950	18·890	18·700	18·388	18·22·50	17·825	17·510	17·310	15·510
37·0	18·410	18·535	18·700	18·950	19·000					17·800	17·500	17·290	15·450
42·0	18·370	18·500	18·750	18·950	19·040					17·725	17·440	17·180	15·200
47·0	18·400	18·540	18·750	18·950	19·040					17·750	17·430	17·000	14·900
52·0	18·440	18·560	18·800	18·950	19·000					17·780	17·400	16·820	14·750
57·0	18·440	18·580	18·800	18·960	18·950					17·780	17·360	16·700	14·710
Therm.	84°0	84°3	85°0	85°8	86°5	87°0	87°5	87°9	88°7	88°2	87°2	86°8	86°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings).*

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·28·70	3·11·00	3·02·70	2·43·60	2·26·90					2·20·0	2·21·5	1·45·50	2·41·20
8·0	3·21·40	3·11·00	3·02·70	2·43·60	2·26·90					2·20·0	2·15·0	1·37·80	2·45·50
13·0	3·21·40	3·11·00	3·02·70	2·43·60	2·26·90					2·25·0	2·13·30	1·37·80	3·04·40
18·0	3·21·40	3·11·00	3·02·70	2·43·60	2·26·90					2·32·0	2·17·50	1·28·10	2·46·90
23·0	3·29·50	3·11·00	3·02·70	2·43·60	2·26·90					2·30·50	2·17·50	1·33·30	2·37·90
28·0	3·29·50	3·11·00	3·02·70	2·26·90	2·26·90	2·49·50	3·20·60	3·20·50	2·07·30	2·30·50	2·17·50	1·49·10	2·37·90
33·0	3·29·50	3·11·00	3·02·70	2·26·90	2·26·90					2·35·50	2·16·50	1·49·10	3·01·30
38·0	3·29·50	3·11·00	3·02·70	2·26·90	2·26·90					2·31·0	2·06·0	1·49·10	3·01·30
43·0	3·18·60	3·11·00	3·02·70	2·26·90	2·13·00					2·31·0	1·39·90	1·49·10	3·01·30
48·0	3·18·60	3·02·70	3·02·70	2·26·90	2·13·00					2·31·0	1·39·90	2·22·20	3·21·30
53·0	3·11·00	3·02·70	2·43·60	2·26·90	2·13·00					2·31·5	1·42·90	2·22·20	3·21·30
58·0	3·11·00	3·02·70	2·43·60	2·26·90	2·31·00	3·27·50	3·28·50	3·35·00	2·20·00	2·21·5	1·45·50	2·41·20	4·03·10
Therm.	85°7	84°9	85°0	85°0	85°5	86°0	86°5	86°8	88°3	87°9	87°9	87°1	87°7

TERM HOUR OBSERVATIONS ON THE 31ST OCTOBER AND 1ST NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16·56	17·02	16·82	16·30	15·77	16·04	16·04	16·04	15·77	16·04	15·04	14·99
5·0	16·56	17·08	16·76	16·30					15·77	15·82	14·99	14·99
10·0	16·56	17·08	16·71	16·14					15·97	15·56	14·93	14·99
15·0	16·56	17·08	16·61	16·09					16·04	15·51	14·67	14·99
20·0	16·56	17·02	16·61	16·04					16·04	15·45	14·52	14·99
25·0	16·61	16·82	16·56	16·04					16·04	15·40	14·47	14·99
30·0	16·66	16·82	16·56	16·04	15·77	16·04	16·04	16·04	16·09	15·30	14·47	14·99
35·0	16·82	16·61	16·56	16·04					16·19	15·25	14·47	15·25
40·0	16·87	16·61	16·50	15·82					16·30	16·09	14·20	14·99
45·0	16·92	16·61	16·46	15·77					16·30	15·04	14·47	15·09
50·0	16·97	16·66	16·30	15·77					16·24	15·19	14·52	15·25
55·0	16·97	16·66	16·30	15·77					16·04	15·25	14·78	15·56

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	20·200	20·140	20·500	20·630	20·610	20·400	19·980	20·000	19·800	19·500	19·150	18·440
7·0	20·200	20·150	20·530	20·650					19·780	19·490	19·150	18·300
12·0	20·180	20·150	20·550	20·690					19·700	19·430	19·080	18·110
17·0	20·200	20·150	20·580	20·700					19·700	19·400	19·210	17·890
22·0	20·200	20·150	20·600	20·700					19·750	19·380	19·200	17·620
27·0	20·180	20·180	20·610	20·670					19·690	19·350	19·200	17·390
32·0	20·150	20·190	20·660	20·660	20·450	20·300	19·900	20·000	19·650	19·310	19·210	17·250
37·0	20·120	20·310	20·690	20·670					19·590	19·300	19·140	17·290
42·0	20·110	20·340	20·650	20·690					19·500	19·260	19·050	17·150
47·0	20·120	20·420	20·680	20·710					19·510	19·210	18·910	16·900
52·0	20·120	20·460	20·630	20·680					19·350	19·200	18·690	16·750
57·0	20·160	20·510	20·600	20·650					19·520	19·200	18·560	16·710
Therm.	80°4	81°3	82°0	82°4	83°0	83°4	84°0	85°0	84°3	84°1	84°0	83°4

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′626	15′485	15′657	14′592	14′249	14′249	14′592	14′592	15′142	16′172	15′897	13′974	14′317
5·0	14·798	15·587	15·623	14·592	14·249					16·318	14·179	13·906	14·317
10·0	15·074	14·553	15·348	14·523	14·249					15·760	15·004	13·837	14·523
15·0	14·936	14·623	15·553	14·317	14·317					16·515	15·623	13·700	14·728
20·0	15·074	14·760	15·553	14·249	14·592					16·447	15·485	13·700	14·728
25·0	14·936	14·519	15·108	14·249	14·592					16·549	15·416	13·630	14·798
30·0	15·211	15·416	15·280	14·249	14·249	14·592	14·420	14·626	15·760	16·378	15·142	13·630	14·798
35·0	15·176	15·623	15·108	14·249	14·249					16·240	14·936	13·906	14·798
40·0	14·936	15·760	15·142	14·249	13·974					16·034	14·867	14·111	14·798
45·0	14·936	15·485	14·936	14·249	13·906					15·966	14·523	14·249	14·728
50·0	15·280	15·348	14·936	14·249	14·249					15·966	14·523	14·249	14·728
55·0	15·691	14·691	14·592	13·562	14·249					15·897	14·454	14·317	14·728

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·310	18·505	18·990	19·150	18·950	18·900	18·290	18·950	17·590	17·350	17·250	17·200	17·350
7·0	18·350	18·590	19·100	19·200	18·950					17·360	17·225	17·200	17·330
12·0	18·295	18·655	19·120	19·225	18·950					17·355	17·200	17·220	17·300
17·0	18·300	18·730	19·135	19·250	18·985					17·380	17·200	16·240	17·310
22·0	18·345	18·710	19·150	19·250	18·935					17·380	17·200	17·280	17·290
27·0	18·420	18·850	19·100	19·150	19·000					17·400	17·200	17·300	17·280
32·0	18·425	18·850	19·100	19·100	19·000	18·350	18·200	18·010	17·445	17·375	17·190	17·310	17·250
37·0	18·465	18·905	19·200	19·125	18·970					17·375	17·140	17·300	17·260
42·0	18·390	18·830	19·250	19·150	18·925					17·370	17·120	17·310	17·240
47·0	18·430	18·850	19·200	19·075	18·850					17·320	17·150	17·300	17·290
52·0	18·480	18·965	19·310	19·050	18·800					17·310	17·140	17·320	17·300
57·0	18·540	18·960	19·200	19·000	18·850					17·300	17·190	17·340	17·330
Therm.	81°0	80°5	81°0	82°5	84°0	85°5	86°0	86°8	86°0	85°8	85°8	85°0	84°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·04·60	3·03·10	1·26·80	−0·33·45	−1·08·50					2·08·50	1·13·50	0·33·50	2·16·10
8·0	4·04·60	3·03·10	0·49·00	−0·33·45	−1·12·80					2·05·50	1·13·50	0·30·50	2·16·10
13·0	3·37·60	2·46·80	0·49·00	−1·00·15	−1·23·50					2·12·00	1·06·00	0·30·50	2·30·70
18·0	3·37·60	2·46·80	0·33·00	−1·00·15	−1·09·50					2·09·00	0·48·50	0·45·90	2·30·70
23·0	3·37·60	2·46·80	0·22·70	−1·00·15	−1·23·55					2·05·00	0·45·50	1·03·70	2·37·40
28·0	3·27·30	2·31·80	0·04·30	−1·00·15	−1·58·85	0·08·60	1·04·20	1·08·50	1·46·0	1·46·50	0·39·50	1·17·10	2·32·80
33·0	3·27·30	2·22·80	0·04·30	−1·00·15	−1·32·75					1·41·00	0·39·50	1·17·10	2·32·80
38·0	3·27·30	2·22·80	−0·11·50	−1·00·15	−1·32·75					1·34·00	0·39·50	2·01·10	2·18·60
43·0	3·27·30	2·12·70	−0·11·50	−1·00·15	−1·32·75					1·15·00	0·39·50	2·01·10	2·18·60
48·0	3·27·30	2·01·10	−0·22·50	−1·12·75	−1·32·75					1·13·50	0·39·50	2·16·10	2·14·00
53·0	3·27·30	1·32·30	−0·22·50	−1·12·75	−1·32·75					1·13·50	−0·04·10	2·16·10	2·14·00
58·0	3·12·30	1·26·80	−0·33·45	−1·08·50	−1·05·65	0·26·35	1·16·00	1·41·50	2·08·50	1·13·50	0·33·50	2·16·10	2·14·00
Therm.	83°5	81°6	81°4	81°5	82°5	84°0	84°5	85°0	86°6	85°6	85°6	85°0	86°0

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16·04	16·04	15·04	15·19	14·99	15·25	15·51	16·04	16·97	16·45	14·73	14·99
5·0	16·04	16·04	14·99	15·25					17·02	16·40	14·52	14·99
10·0	16·04	16·04	14·99	15·25					17·08	16·40	14·40	15·09
15·0	16·04	16·04	14·99	15·25					17·08	16·30	14·20	15·25
20·0	16·04	16·04	14·99	15·25					17·13	16·14	14·20	15·40
25·0	16·04	15·97	14·99	15·09					17·08	16·04	14·25	15·45
30·0	16·04	15·82	14·99	14·99	15·51	15·25	15·51	16·56	16·92	15·71	14·30	15·51
35·0	16·14	15·56	14·99	14·99					16·82	15·56	14·35	15·45
40·0	16·19	15·51	14·99	14·99					16·61	15·51	14·52	15·40
45·0	16·19	15·45	15·04	14·99					16·50	15·25	14·78	15·35
50·0	16·04	15·40	15·09	14·99					16·45	15·04	14·93	15·30
55·0	16·04	15·25	15·09	15·09					16·40	14·99	14·99	15·25

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	20·810	21·100	21·100	20·780	20·500	19·900	19·400	19·08	18·940	18·890	18·990	19·210
7·0	20·870	21·100	21·100	20·700					18·980	18·860	18·990	19·210
12·0	20·900	21·170	21·090	20·690					18·910	18·820	19·060	19·200
17·0	20·900	21·160	21·050	20·600					19·000	18·810	19·000	19·190
22·0	20·900	21·150	21·020	20·600					19·050	18·800	19·020	19·180
27·0	20·980	21·140	20·930	20·690					19·060	18·840	19·070	19·160
32·0	20·910	21·130	20·900	20·710	20·100	19·700	19·400	19·00	19·040	18·860	19·100	19·120
37·0	20·950	21·110	20·900	20·630					19·010	18·840	19·110	19·140
42·0	20·980	21·100	20·900	20·610					18·980	18·800	19·120	19·150
47·0	21·050	21·110	20·900	20·500					18·980	18·876	19·130	19·190
52·0	21·120	21·100	20·870	20·420					18·910	18·900	19·180	19·230
57·0	21·100	21·140	20·830	20·490					18·900	18·930	19·220	19·270
Therm.	76°0	76°4	78°0	79°3	80°7	82°0	82°0	83°0	83°5	82°4	82°3	82°1

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·076	15·074	14·936	16·136	14·042	13·219	13·459	13·906	14·249	13·906	14·592	13·664	13·562
5·0	14·042	15·004	15·280	14·936	14·076					13·906	13·768	13·459	13·630
10·0	14·283	14·936	14·936	14·936	13·906					13·768	14·454	13·493	13·768
15·0	14·317	14·936	14·936	14·592	13·734					13·906	14·249	13·355	13·734
20·0	14·386	14·936	15·280	14·936	13·219					14·592	14·249	13·562	13·837
25·0	14·592	14·936	15·280	14·592	13·389					14·249	14·249	13·562	13·940
30·0	14·867	15·074	15·280	14·592	13·389	13·562	14·059	14·249		14·317	14·249	13·562	13·974
35·0	14·762	15·280	15·280	14·592	13·219					14·249	14·042	13·493	13·974
40·0	14·901	15·280	15·280	14·213	13·876					14·111	13·837	13·287	14·442
45·0	14·728	15·280	15·280	14·213	13·115					13·562	13·700	13·562	14·249
50·0	14·660	15·142	14·936	14·420	13·115					14·179	13·562	13·425	14·179
55·0	14·867	14·936	14·936	14·179	13·184					14·317	13·562	13·562	14·076

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·440	19·665	19·950	20·100	20·450	20·450	20·350	20·530	20·100	20·150	20·000	19·805	19·755
7·0	19·405	19·400	20·000	20·150	20·450					20·150	20·000	19·760	19·845
12·0	19·450	19·740	20·000	20·150	20·450					20·150	20·000	19·780	19·850
17·0	19·465	19·700	20·000	20·150	20·450					20·150	19·400	19·780	19·920
22·0	19·530	19·750	20·000	20·175	20·475					20·150	19·400	19·800	19·990
27·0	19·550	19·760	20·040	20·150	20·450					20·150	19·900	19·800	19·995
32·0	19·540	19·800	20·050	20·250	20·375	20·350	20·350	20·240	20·150	20·140	19·850	19·790	20·000
37·0	19·510	19·800	20·070	20·500	20·350					20·140	19·850	19·840	19·995
42·0	19·555	19·850	20·100	20·500	20·425					20·120	19·850	19·850	19·970
47·0	19·575	19·850	20·100	20·400	20·425					20·100	19·790	19·860	19·940
52·0	19·615	19·950	20·200	20·360	20·420					20·100	19·900	19·860	19·920
57·0	19·635	19·950	20·125	20·425	20·400					20·100	19·850	19·900	19·900
Therm.	77°4	77°0	76°0	76°6	76°8	76°5	76°8	76°6	76°6	76°4	76°4	75°5	75°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	4·14·40	3·36·40	3·19·50	3·04·25	0·40·40					2·26·00	2·03·50	1·10·50	1·44·30
8·0	4·14·40	3·26·00	3·19·50	2·22·90	0·40·40					2·26·00	2·07·50	1·10·50	1·49·00
13·0	4·14·40	3·26·00	3·19·50	2·22·90	0·41·65					2·21·00	2·07·50	1·10·50	1·47·00
18·0	4·26·90	2·43·50	3·19·50	2·07·45	1·06·65					2·21·00	2·07·50	1·10·50	2·00·30
23·0	4·26·90	2·43·50	3·11·00	2·07·45	1·06·65					2·21·00	2·07·50	1·15·00	2·00·30
28·0	4·26·90	2·43·50	3·11·00	1·37·30	1·14·50	2·00·20	2·44·75	1·37·50		2·22·00	2·12·00	1·21·10	2·00·30
33·0	4·26·90	2·18·00	3·11·00	1·37·30	1·20·10					2·22·00	1·34·20	1·21·10	2·00·30
38·0	4·12·50	2·18·00	2·48·50	0·23·25	1·20·10					2·22·00	1·26·50	1·29·50	2·02·25
43·0	3·48·40	2·18·00	2·48·50	1·01·95	1·20·10					2·12·00	1·23·50	1·29·50	2·02·25
48·0	3·46·40	2·18·00	2·40·20	1·01·95	1·20·10					2·12·00	1·14·50	1·39·50	2·02·25
53·0	3·36·40	2·18·00	2·40·20	0·43·10	1·31·20					2·12·00	1·08·10	1·44·25	2·02·25
58·0	3·36·40	3·19·50	2·40·25	0·40·40	1·20·75	2·22·60	2·22·00	1·37·50	2·26·00	2·03·60	1·15·25	1·44·30	2·02·25
Therm.	79°4	78°0	76°0	77°3	77°2	77°0	77°0	77°0	77°2	76°8	76°6	76°0	77°6

TERM HOUR OBSERVATIONS ON THE 4TH AND 5TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15·56	15·51	15·45	14·47	14·62	13·94	14·47	14·47	14·47	14·73	14·04	14·09
5·0	15·61	15·51	15·45	14·25					14·52	14·78	13·99	14·14
10·0	15·61	15·56	15·40	14·20					14·57	14·78	13·94	14·20
15·0	15·61	15·56	15·30	14·04					14·67	14·83	13·94	14·20
20·0	15·61	15·56	15·09	13·94					14·73	14·73	13·99	14·47
25·0	15·61	15·56	14·99	13·94					14·73	14·73	13·99	14·47
30·0	15·56	15·56	14·99	13·94	13·94	14·47	14·73	14·78	14·78	14·67	13·94	14·47
35·0	15·56	15·56	14·78	13·83					14·78	14·52	13·99	14·47
40·0	15·56	15·56	14·52	13·68					14·73	14·47	13·94	14·62
45·0	15·56	15·51	14·67	13·62					14·78	14·30	13·94	14·67
50·0	15·56	15·45	14·47	13·68					14·78	14·20	14·04	14·62
55·0	15·51	15·40	14·47	13·68					14·78	14·20	14·04	14·73

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	21·440	21·800	21·900	22·200	22·100	22·060	22·200	22·150	21·590	21·405	21·300	21·400
7·0	21·470	21·800	21·930	22·200					21·590	21·390	21·290	21·440
12·0	21·490	21·800	21·940	22·200					21·590	21·350	21·320	21·420
17·0	21·540	21·810	21·960	22·200					21·560	21·310	21·390	21·450
22·0	21·570	21·830	21·990	22·210					21·620	21·290	21·390	21·480
27·0	21·590	21·850	22·100	22·140					21·510	21·320	21·350	21·490
32·0	21·640	21·880	22·230	22·100	22·060	22·100	22·200	22·200	21·500	21·210	21·340	21·510
37·0	21·690	21·890	22·300	22·110					21·480	21·220	21·340	21·500
42·0	21·700	21·920	22·310	22·150					21·470	21·230	21·370	21·470
47·0	21·740	21·910	22·280	22·150					21·450	21·250	21·390	21·430
52·0	21·750	21·910	22·160	22·140					21·410	21·290	21·370	21·410
57·0	21·780	21·910	22·210	22·130					21·400	21·300	21·390	21·400
Therm.	73°2	73°0	72°6	73°2	73°0	73°0	72°0	72°0	72°0	72°0	72°0	72°0

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·459	14·008	15·623	15·623	15·348	14·936	14·249	14·592	14·454	13·734	13·906	14·557	14·396
5·0	13·630	14·076	15·623	15·519	15·348					13·906	13·906	14·386	14·386
10·0	13·425	14·288	15·280	15·623	15·280					13·906	13·940	14·386	14·454
15·0	13·562	13·906	15·416	15·623	15·280					14·042	13·940	14·249	14·454
20·0	13·734	14·867	15·553	15·460	15·280					13·974	13·940	14·179	14·454
25·0	13·562	14·867	15·485	15·519	15·245					13·906	13·940	14·249	14·523
30·0	13·562	14·592	14·936	15·623	15·245	14·798	14·762	14·454	13·768	13·906	13·974	14·317	14·660
35·0	13·425	14·592	15·623	15·587	15·108					13·768	14·042	14·111	14·660
40·0	13·664	14·592	15·485	15·623	15·108					13·734	14·042	14·042	14·592
45·0	13·459	15·280	15·623	15·553	15·108					13·734	14·249	14·179	14·592
50·0	13·700	15·280	15·657	15·553	15·038					13·734	14·523	14·249	14·660
55·0	13·906	15·623	15·657	15·553	14·936					13·734	14·523	14·386	14·660

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·625	21·050	21·300	21·400	21·255	20·800	20·600	20·125	19·800	19·600	19·170	19·030	19·000
7·0	20·705	21·100	21·300	21·400	21·200					19·590	19·190	19·050	18·950
12·0	20·825	21·100	21·350	21·375	21·150					19·560	19·225	19·030	18·910
17·0	20·780	21·050	21·450	21·350	21·150					19·540	19·210	19·080	18·860
22·0	20·900	20·930	21·470	21·350	21·150					19·525	19·210	19·100	18·800
27·0	20·925	21·050	21·450	21·375	21·150					19·520	19·220	19·090	18·780
32·0	21·000	20·950	21·470	21·390	21·150	20·600	20·200	19·890	19·750	19·475	19·200	19·090	18·740
37·0	21·020	20·950	21·480	21·450	21·140					19·425	19·150	19·100	18·750
42·0	20·905	21·100	21·460	21·425	21·140					19·430	19·110	19·050	18·790
47·0	20·950	21·100	21·600	21·450	21·025					19·375	19·095	19·060	18·730
52·0	20·950	21·300	21·510	21·400	21·020					19·300	19·080	19·050	18·740
57·0	20·980	21·350	21·450	21·300	20·850					19·200	19·090	19·040	18·700
Therm.	73°0	73°4	73°4	76°5	78°0	79°0	79°5	79°8	80°0	80°5	80°0	78°9	78°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·22·10	3·39·10	3·18·00	2·24·50	2·19·00					2·14·50	5·23·50	3·06·50	2·39·10
8·0	3·37·30	3·39·10	3·13·00	2·24·50	2·19·00					2·14·50	4·38·10	2·46·00	2·39·10
13·0	3·37·30	3·25·20	3·13·00	2·24·50	2·04·80					2·13·50	4·15·75	2·46·00	2·39·10
18·0	3·37·30	4·18·50	3·00·00	2·24·50	1·46·20					2·13·50	4·00·25	2·32·50	2·39·10
23·0	3·37·30	4·01·50	3·00·00	2·15·50	1·40·50					2·16·50	3·33·00	2·27·50	2·39·10
28·0	3·25·30	4·01·50	3·00·00	2·15·50	1·40·45	2·12·90	1·37·45	2·17·0	2·17·0	2·29·50	3·31·00	2·27·50	2·39·10
33·0	3·25·80	3·35·00	3·00·00	2·00·20	1·40·45					3·02·75	3·18·00	2·27·50	2·43·25
38·0	3·25·80	3·25·00	2·45·50	1·44·80	1·46·15					3·12·70	3·18·00	2·21·00	2·43·25
43·0	3·25·80	3·25·00	2·39·60	1·39·25	1·46·15					3·23·75	3·18·00	2·26·30	2·32·50
48·0	3·25·80	3·23·00	2·19·90	1·39·25	2·07·50					3·28·00	3·18·00	2·31·50	2·32·50
53·0	3·38·10	3·25·00	2·29·00	1·39·25	2·07·50					4·20·75	3·19·95	3·31·50	2·32·50
58·0	3·38·10	2·13·00	2·32·75	1·48·70	2·20·50	1·14·80	3·03·50	2·17·0	2·14·50	5·23·50	3·14·20	2·33·75	2·34·20
Therm.	76°0	74°5	75°0	75°5	76°5	77°5	78°2	78°5	80°0	80°5	81°0	80°0	79°3

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15'40	16'82	17'08	16'92	16'56	16'30	15'97	16'04	15'82	15'45	16'04	16'04
5·0	15·45	16·87	17·08	16·97					15·77	15·51	16·04	16·04
10·0	15·51	16·82	17·08	16·97					15·77	15·51	16·04	16·04
15·0	15·82	16·92	17·08	16·97					15·61	15·51	15·97	16·04
20·0	16·19	16·87	17·08	16·82					15·56	15·56	15·92	16·09
25·0	16·19	16·92	17·08	16·66					15·51	15·56	15·97	16·14
30·0	16·24	16·97	17·09	16·66	16·30	16·56	16·04	16·04	15·51	15·61	16·97	16·30
35·0	16·24	17·08	17·08	16·61					15·51	15·66	15·82	16·35
40·0	16·40	17·08	17·02	16·61					15·40	15·77	15·77	16·24
45·0	16·50	17·08	16·97	16·66					15·40	16·04	15·92	16·24
50·0	16·56	17·08	16·92	16·61					15·40	16·04	16·04	16·40
55·0	16·71	17·08	16·92	16·56					15·40	16·04	16·04	16·50

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	21·510	21·760	21·860	21·710	21·250	20·650	20·150	19·700	19·670	19·280	19·160	19·030
7·0	21·500	21·790	21·830	21·590					19·650	19·230	19·140	19·000
12·0	21·600	21·800	21·800	21·570					19·650	19·310	19·110	18·930
17·0	21·320	21·830	21·770	21·540					19·630	19·300	19·150	18·850
22·0	21·290	21·850	21·770	21·570					19·610	19·320	19·170	18·800
27·0	21·310	21·850	21·710	21·580					19·630	19·270	19·180	18·790
32·0	21·410	21·900	21·790	21·570	20·950	20·200	19·760	19·650	19·800	19·210	19·190	18·720
37·0	21·490	21·900	21·790	21·660					19·690	19·200	19·150	18·750
42·0	21·540	21·900	21·820	21·500					19·590	19·220	19·140	18·750
47·0	21·670	21·900	21·850	21·440					19·510	19·188	19·150	18·750
52·0	21·730	21·910	21·850	21·410					19·360	19·130	19·140	18·730
57·0	21·800	21·900	21·790	21·408					19·340	19·170	19·090	18·700
Therm.	69°9	70°2	71°9	72°3	74°0	75°4	76°0	76°4	77°6	77°2	76°4	75°9

TERM HOUR OBSERVATIONS on the 9th and 10th NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·906	14·111	13·966	15·623	14·936	13·906	14·249	14·867	15·485	15·485	15·038	14·042	14·111
5·0	13·802	13·974	15·966	15·623	14·762					15·495	15·038	13·906	14·042
10·0	13·734	13·974	15·416	15·553	14·762					15·348	15·142	13·906	14·042
15·0	13·630	14·179	15·416	15·280	14·592					15·280	15·142	13·837	14·179
20·0	13·768	14·111	15·623	15·280	14·249					15·142	15·142	13·700	14·249
25·0	13·562	14·249	15·623	15·280	14·249					15·142	15·142	13·709	14·249
30·0	13·630	14·592	15·794	15·280	14·249	14·283	14·592	15·348	15·623	15·004	14·798	13·700	14·386
35·0	13·734	14·592	15·623	15·280	14·249					15·004	14·592	13·768	14·454
40·0	13·630	14·936	15·623	15·108	14·076					15·004	14·660	13·768	14·523
45·0	13·906	14·936	15·623	15·108	14·076					15·004	14·386	13·936	14·592
50·0	14·076	15·211	15·623	15·108	13·906					14·867	14·249	13·906	14·592
55·0	13·974	15·211	15·623	14·936	13·906					14·867	14·111	14·042	14·523

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·025	20·085	20·300	20·350	20·900	20·650	20·725	20·370	20·000	19·520	19·220	19·225	19·350
7·0	20·060	20·135	20·300	20·400	20·800					19·600	19·200	19·280	19·310
12·0	20·270	20·125	20·300	20·475	20·650					19·610	19·150	19·320	19·290
17·0	20·070	20·150	20·390	20·585	20·845					19·610	19·075	19·330	19·240
22·0	20·030	20·200	20·375	20·675	20·850					19·650	19·075	19·330	19·190
27·0	20·015	20·200	20·400	20·750	20·850					19·480	19·050	19·340	19·160
32·0	20·020	20·150	20·450	20·750	20·850	20·850	20·500	20·150	19·420	19·480	19·060	19·370	19·150
37·0	20·070	20·150	20·450	20·750	20·850					19·440	19·080	19·350	19·170
42·0	20·100	20·150	20·450	20·725	20·850					19·400	19·090	19·350	19·170
47·0	20·125	20·200	20·450	20·700	20·850					19·340	19·100	19·370	19·200
52·0	20·100	20·290	20·450	20·700	20·900					19·310	19·120	19·400	19·160
57·0	20·100	20·290	20·350	20·750	20·900					19·300	19·170	19·380	19·110
Therm.	75°0	75°0	76°1	77°7	79°3	79°5	80°9	81°0	81°2	81°4	81°0	79°8	78°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	3·37·90	3·14·60	3·13·00	2·17·10	0·23·50					2·35·00	2·45·25	2·03·20	2·47·05
8·0	4·03·30	3·14·60	3·15·00	2·16·55	0·08·15					2·35·00	2·45·25	2·03·20	2·47·05
13·0	4·03·30	3·43·00	3·15·00	1·38·95	−0·04·50					2·35·00	2·45·25	2·10·50	2·47·05
18·0	3·14·60	3·43·00	3·15·00	1·12·75	−0·04·00					2·35·00	2·45·25	2·01·50	2·47·05
23·0	3·14·60	3·18·50	3·02·00	1·06·50	−0·07·65					2·35·00	2·45·25	2·01·50	2·47·05
28·0	3·14·60	3·28·50	3·02·00	0·44·00	−0·07·65	0·15·65	2·05·05	2·16·00	2·16·00	3·03·50	2·30·00	2·07·75	2·48·50
33·0	3·14·60	3·28·50	2·46·60	0·44·00	−0·07·65					3·09·75	2·30·00	2·14·00	2·48·50
38·0	3·14·60	3·28·50	2·37·15	0·44·00	−0·06·50					3·09·75	2·17·00	2·20·50	2·48·50
43·0	3·14·60	3·28·50	2·37·15	0·44·00	−0·06·50					3·09·75	2·08·00	2·28·50	3·02·00
48·0	3·14·60	3·28·50	2·31·10	0·44·00	−0·09·70					3·01·75	2·05·00	2·32·00	3·02·00
53·0	3·14·60	3·28·50	2·25·60	0·10·35	0·03·95					3·01·75	2·05·00	2·36·50	3·02·00
58·0	3·14·60	3·28·50	2·25·60	0·23·50	0·09·00	1·29·10	2·16·00	2·16·00	2·27·50	2·45·25	2·03·20	2·47·05	3·02·60
Therm.	77°3	76°4	77°2	77°0	78°0	79°0	79°5	80°3	81°0	81°5	81°2	80°4	81°1

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0:0	15·77	17·08	17·34	16·82	15·77	16·04	16·82	17·34	17·34	16·82	16·04	16·04
5:0	15·82	17·08	17·34	16·71					17·34	16·87	15·77	16·04
10:0	15·97	17·13	17·28	16·56					17·34	17·08	15·71	16·04
15:0	16·04	17·13	17·13	16·45					17·13	17·02	15·71	16·04
20:0	16·04	17·28	17·02	16·24					17·08	16·82	15·56	16·04
25:0	16·09	17·34	17·02	16·09					16·97	16·66	15·51	16·04
30:0	16·35	17·43	16·97	16·04	16·04	16·56	16·82	17·34	16·82	16·66	15·51	16·30
35:0	16·50	17·48	16·92	16·04					16·82	16·56	15·51	16·40
40:0	16·66	17·43	16·97	16·04					16·82	16·56	15·51	16·45
45:0	16·82	17·34	17·08	15·97					16·76	16·35	15·61	16·50
50:0	17·02	17·34	17·02	15·92					16·61	16·14	15·77	16·50
55:0	17·08	17·34	16·92	15·82					16·61	16·04	15·92	16·56

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	20·010	20·050	19·810	20·170	20·350	20·200	19·650	19·380	19·130	19·030	18·900	19·255
7·0	20·000	20·000	19·820	20·130					19·130	19·000	19·080	19·230
12·0	20·000	20·000	19·910	20·150					19·150	18·900	19·090	19·220
17·0	20·040	19·990	19·980	20·160					19·190	18·820	19·110	19·200
22·0	20·000	19·980	20·090	20·250					19·200	18·800	19·150	19·140
27·0	20·000	20·000	20·170	20·280					19·160	18·810	19·200	19·110
32·0	20·000	20·000	20·220	20·300	20·400	19·900	19·500	19·200	19·110	18·750	19·210	19·140
37·0	20·020	19·990	20·200	20·310					19·120	18·760	19·210	19·110
42·0	20·060	19·910	20·150	20·310					19·070	18·790	19·235	19·150
47·0	20·060	19·890	20·100	20·320					19·050	18·750	19·250	19·170
52·0	20·060	19·850	20·100	20·330					19·050	18·850	19·280	19·130
57·0	20·050	19·810	20·110	20·320					19·090	18·880	19·250	19·050
Therm.	71°8	72°0	73°5	74°6	76°0	77°0	77°8	78°0	78°0	77°9	76°7	76°0

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'630	14'317	15'280	15'450	15'623	15'280	15'038	15'897	15'348	14'523	14'249	13'906	13'906
5·0	13·906	14·317	15·280	15·450	15·623					14·523	14·317	13·906	14·042
10·0	13·906	14·523	15·416	15·348	15·623					14·557	14·317	13·837	14·042
15·0	13·906	14·762	15·623	15·623	15·660					14·592	14·111	13·837	14·042
20·0	13·906	14·592	15·623	15·623	15·660					14·592	13·974	13·700	14·249
25·0	14·042	14·867	15·485	15·623	15·587					14·592	14·042	13·768	14·249
30·0	13·940	14·592	15·553	15·623	15·587	15·074	15·280	15·623	14·660	14·454	13·974	13·630	14·249
35·0	13·940	14·867	15·280	15·966	15·587					14·454	13·974	13·630	14·249
40·0	14·111	15·280	16·653	15·623	15·623					14·386	13·974	13·700	14·249
45·0	13·974	15·553	15·280	15·794	15·623					14·386	13·974	13·700	14·249
50·0	14·008	15·280	15·280	15·862	15·450					14·386	13·974	13·906	14·249
55·0	14·179	15·211	15·450	15·623	15·450					14·386	13·906	13·906	14·249

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·780	19·880	20·350	20·550	20·675	20·825	20·575	20·195	19·700	19·075	18·880	18·890	18·920
7·0	19·820	19·900	20·400	20·600	20·700					19·120	18·900	18·890	18·910
12·0	19·750	19·930	20·410	20·625	20·750					19·110	18·900	18·870	18·900
17·0	19·825	19·950	20·410	20·650	20·750					19·050	18·900	18·890	18·910
22·0	19·690	20·050	20·430	20·650	20·750					19·050	18·890	18·900	18·910
27·0	19·655	20·090	20·440	20·650	20·800					19·060	18·850	18·900	18·910
32·0	19·665	20·125	20·480	20·700	20·825	20·775	20·400	20·000	19·420	19·040	18·840	18·900	18·950
37·0	19·670	20·150	20·350	20·675	20·825					19·020	18·840	18·930	18·930
42·0	19·750	20·170	20·475	20·650	20·925					18·920	18·850	18·930	19·000
47·0	19·790	20·240	20·500	20·650	20·785					18·920	18·850	18·950	19·000
52·0	19·815	20·250	20·500	20·650	20·800					18·880	18·870	18·950	19·000
57·0	19·820	20·300	20·550	20·675	20·825					18·870	18·870	18·940	19·000
Therm.	75°6	73°9	73°9	78°0	79°5	80°5	82°0	82°5	83°0	83°6	83°6	82°8	81°5

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	5·34·80	3·31·20	3·06·50	2·00·20	1·19·50					2·15·00	2·15·75	1·47·00	2·03·20
8·0	5·14·80	3·31·20	3·06·50	1·43·90	1·19·50					2·15·00	2·15·75	1·47·00	1·48·50
13·0	5·14·80	4·08·75	2·49·50	1·15·85	1·19·50					2·15·00	2·01·50	1·47·00	1·48·50
18·0	4·46·00	4·08·75	2·49·90	1·15·85	1·19·50					2·08·00	2·23·50	1·47·00	1·48·50
23·0	4·08·00	3·36·50	2·49·00	1·11·10	1·20·50					2·08·00	2·23·50	1·42·30	1·42·50
28·0	3·40·30	3·36·50	2·31·00	1·11·10	1·21·00	1·10·45	2·31·55	2·18·50	2·40·0	2·08·00	1·47·50	1·40·20	1·41·00
33·0	3·40·30	3·31·00	2·31·00	1·32·20	1·23·05					2·08·00	1·45·00	1·47·25	1·40·50
38·0	3·40·30	3·31·00	2·10·55	1·27·30	1·23·05					2·19·00	1·45·00	2·00·00	1·38·00
43·0	3·40·30	3·20·50	2·07·60	1·27·30	1·23·50					2·19·00	1·45·00	2·00·00	1·26·60
48·0	3·31·20	3·20·50	2·00·20	1·27·30	1·23·50					2·17·00	1·45·00	2·00·00	1·26·60
53·0	3·31·20	3·20·50	2·00·20	1·21·65	1·23·50					2·17·00	1·45·00	2·00·00	1·26·60
58·0	3·31·20	3·06·50	2·00·20	1·19·20	1·23·45	2·22·95	2·36·50	2·01·50	2·00·00	2·17·00	1·45·00	2·03·20	1·22·50
Therm.	77°9	76°3	78°9	76°5	78°0	79°5	80°5	81°5	83°0	83°5	84°0	82°7	83°0

TERM HOUR OBSERVATIONS ON THE 11TH AND 12TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16·04	17·06	17·16	17·39	17·23	17·08	17·60	17·60	16·45	16·14	15·71	15·92
5·0	16·14	17·08	17·34	17·39					16·40	16·09	15·61	15·97
10·0	16·30	17·13	17·28	17·39					16·45	16·09	15·56	15·97
15·0	16·45	17·23	17·34	17·53					16·45	16·04	15·51	15·97
20·0	16·50	17·34	17·34	17·48					16·40	16·04	15·51	16·04
25·0	16·56	17·39	17·34	17·39					16·45	15·97	15·51	16·14
30·0	16·61	17·34	17·39	17·34	16·82	17·34	17·60		16·30	15·97	15·51	16·14
35·0	16·66	17·34	17·28	17·34					16·30	15·97	15·51	16·04
40·0	16·82	17·28	17·34	17·39					16·24	15·92	15·56	16·04
45·0	16·82	17·28	17·34	17·34					16·19	15·87	15·56	16·09
50·0	16·97	17·28	17·48	17·34					16·14	15·82	15·61	16·14
55·0	17·02	17·23	17·53	17·34					16·14	15·71	15·87	16·24

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	20·000	20·390	20·370	20·400	20·500	20·050	19·650	19·700	18·400	18·210	18·640	18·740
7·0	20·040	20·400	20·390	20·400					18·370	18·220	18·650	18·750
12·0	20·100	20·400	20·410	20·450					18·320	18·300	18·670	18·790
17·0	20·130	20·400	20·400	20·480					18·290	18·320	18·680	18·800
22·0	20·150	20·360	20·400	20·510					18·300	18·350	18·700	18·800
27·0	20·200	20·320	20·400	20·510					18·350	18·390	18·740	18·800
32·0	20·220	20·340	20·400	20·560	20·300	20·800	19·100		18·350	18·400	18·770	18·810
37·0	20·280	20·350	20·400	20·560					18·320	18·400	18·780	18·810
42·0	20·290	20·350	20·400	20·520					18·270	18·490	18·790	18·810
47·0	20·310	20·390	20·390	20·500					18·240	18·520	18·800	18·820
52·0	20·300	20·400	20·400	20·550					18·240	18·590	18·810	18·800
57·0	20·340	20·400	20·400	20·500					18·220	18·620	18·800	18·800
Therm.	71°8	72°0	73°3	74°4	76°0	78°0	78°2	79°4	80°0	80°0	80°0	79°2

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·802	14·317	14·936	15·425	15·450	14·249	13·906	13·837	14·317	14·867	14·592	13·700	14·111
5·0	13·768	14·249	15·142	15·425	15·108					14·936	14·592	13·700	14·111
10·0	13·837	14·660	15·936	15·425	14·762					14·867	14·386	13·700	14·111
15·0	13·837	14·592	15·211	15·485	14·762					14·728	14·592	13·700	14·179
20·0	14·076	14·592	15·142	14·867	14·762					14·728	14·592	13·700	14·111
25·0	14·042	14·592	15·142	15·853	14·592					14·660	14·042	13·630	14·249
30·0	13·974	14·660	15·936	15·623	14·694	14·249	14·420	14·249	14·798	14·694	14·042	13·630	14·249
35·0	14·076	14·660	15·211	15·623	14·420					14·694	14·042	13·700	14·386
40·0	14·076	14·936	15·450	15·623	14·420					14·694	13·837	13·837	14·386
45·0	14·111	14·798	15·450	15·450	14·386					14·762	14·523	13·837	14·386
50·0	14·042	14·936	15·416	15·450	14·249					14·660	13·906	13·937	14·386
55·0	14·042	14·728	15·416	15·450	14·249					14·592	13·700	14·042	14·386

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·600	19·640	19·920	20·175	20·400	20·500	19·775	19·150	18·750	18·650	18·650	18·700	18·960
7·0	19·690	19·675	19·975	20·200	20·425					18·690	18·650	18·750	18·950
12·0	19·690	19·675	20·000	20·200	20·425					18·680	18·640	18·790	18·950
17·0	19·685	19·675	20·000	20·225	20·425					18·675	18·650	18·800	18·960
22·0	19·730	19·800	20·050	20·250	20·425					18·690	18·645	18·820	18·960
27·0	19·620	19·800	20·075	20·275	20·525					18·690	18·620	18·820	18·960
32·0	19·650	19·850	20·100	20·300	20·425	20·125	19·375	18·930	18·710	18·670	18·620	18·890	18·950
37·0	19·600	19·860	20·075	20·300	20·500					18·660	18·625	18·900	18·940
42·0	19·470	19·900	20·100	20·325	20·600					18·660	18·620	18·900	18·920
47·0	19·670	19·940	20·100	20·350	20·600					18·660	18·610	18·900	18·900
52·0	19·670	19·910	20·100	20·360	20·600					18·670	18·630	18·950	18·900
57·0	19·580	19·950	20·100	20·360	20·600					18·660	18·660	18·960	18·900
Therm.	77°8	78°0	78°8	79°0	81°2	82°3	83°2	83°2	84°3	84°9	84°6	83°5	82°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·38·60	3·36·00	3·09·00	2·40·60	1·34·65					2·42·00	2·30·50	2·00·00	2·07·80
8·0	4·02·00	3·36·00	3·04·50	2·36·50	1·36·90					2·37·00	2·22·00	1·45·00	2·07·80
13·0	3·35·50	3·36·00	3·04·50	2·33·05	1·37·50					2·37·00	2·22·00	1·48·00	2·07·80
18·0	3·38·50	3·36·00	3·07·00	2·28·60	1·31·30					2·37·00	2·03·50	1·48·00	2·13·00
23·0	3·38·50	3·36·00	3·07·00	2·23·00	1·31·30					2·32·50	2·06·00	1·48·00	2·18·00
28·0	3·28·30	3·31·00	3·07·00	2·23·00	1·31·30	0·39·25	1·32·65	2·10·00	2·42·00	2·32·50	2·06·00	1·48·00	2·13·00
33·0	3·28·30	3·31·50	3·07·00	2·38·75	1·36·05					2·32·50	1·49·00	1·48·00	2·13·00
38·0	3·28·30	3·22·50	2·49·18	2·06·00	1·34·45					2·42·50	1·49·00	1·48·00	2·13·00
43·0	3·36·00	3·22·50	2·49·15	1·45·90	0·49·95					3·06·00	1·49·00	2·01·80	2·13·00
48·0	3·36·00	3·22·50	2·49·15	1·37·60	0·43·10					3·06·00	1·49·00	2·06·00	2·13·00
53·0	3·36·00	3·22·50	2·49·15	1·26·55	0·39·25					2·49·50	1·49·00	2·10·20	2·13·00
58·0	3·36·00	3·09·00	2·40·60	1·14·95	0·39·25	0·37·95	2·07·50	2·31·00	2·42·00	2·39·00	1·44·70	2·07·80	2·12·95
Therm.	80°3	78°6	78°8	79°0	81°0	81°5	81°9	83°0	84°0	84°5	84°5	83°5	84°0

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15·97	16·66	17·08	17·08	16·09	16·04	16·30	16·04	16·56	16·50	15·45	15·82
5·0	16·04	16·61	17·08	17·02					16·56	16·04	15·51	16·04
10·0	16·04	16·61	17·13	16·92					16·56	16·04	15·51	16·04
15·0	16·19	16·61	17·18	16·61					16·50	16·04	15·51	16·04
20·0	16·30	16·61	17·23	16·56					16·50	16·04	15·45	16·04
25·0	16·30	16·66	17·34	16·50					16·45	16·04	15·40	16·04
30·0	16·40	16·82	17·34	16·46	15·51	16·04	16·04	16·39	16·45	15·82	15·51	16·04
35·0	16·45	16·87	17·34	16·30					16·50	15·77	15·51	16·04
40·0	16·50	17·02	17·34	16·24					16·50	15·77	15·51	16·04
45·0	16·56	17·02	17·34	16·04					16·50	15·77	15·61	16·04
50·0	16·56	17·08	17·34	16·04					16·50	15·51	15·61	16·04
55·0	16·56	17·08	17·23	16·04					16·50	15·51	15·77	16·09

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·5	19·980	20·120	20·180	20·250	20·050	19·850	18·200	18·100	18·140	18·290	18·640	19·050
7·0	19·970	20·120	20·190	20·270					18·150	18·300	18·700	19·060
12·0	19·990	20·120	20·200	20·300					18·150	18·320	18·750	19·100
17·0	19·990	20·110	20·200	20·300					18·160	18·400	18·760	19·100
22·0	20·000	20·130	20·220	20·300					18·160	18·400	18·800	19·100
27·0	20·030	20·170	20·220	20·350					18·200	18·410	18·350	19·175
32·0	20·050	20·180	20·280	20·300	19·400	18·400	18·150	18·120	18·200	18·440	18·900	19·135
37·0	20·090	20·190	20·250	20·260					18·200	18·450	18·900	19·150
42·0	20·050	20·180	20·250	20·250					18·200	18·460	18·900	19·120
47·0	20·100	20·160	20·250	20·300					18·200	18·460	18·990	19·100
52·0	20·140	20·150	20·250	20·275					18·240	18·470	19·000	19·100
57·0	20·110	20·150	20·250	20·200					18·250	18·610	19·000	19·100
Therm.	73°9	74°0	74°2	75°9	77°6	78°9	79°9	80°0	80°2	80°4	80°0	79°8

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14′592	14′076	14′336	14′420	13′734	13′355	13′562	13′940	14′111	14′386	13′974	13′906	14′454
5·0	14·454	14·111	14·798	13·837	13·734					14·386	13·974	13·906	14·523
10·0	14·817	13·974	14·798	13·837	13·734					14·454	13·974	13·906	14·523
15·0	14·111	13·974	14·798	13·493	13·734					14·386	13·974	13·906	14·523
20·0	14·249	14·111	14·660	13·493	13·562					14·386	13·974	13·906	14·454
25·0	14·179	14·317	14·592	13·493	13·562					14·249	13·906	13·906	14·386
30·0	14·145	14·249	14·523	13·906	13·562	13·630	13·974	14·317	14·317	14·317	13·974	13·974	14·317
35·0	13·906	14·386	14·420	13·900	13·562					14·179	13·905	13·974	14·317
40·0	13·906	14·249	14·592	13·837	13·459					14·179	13·940	14·111	14·317
45·0	13·974	14·660	14·592	13·837	13·459					14·111	13·906	14·179	14·317
50·0	14·042	14·592	14·420	13·562	13·355					14·042	13·906	14·317	14·317
55·0	13·974	14·867	14·249	13·562	13·355					13·914	13·906	14·317	14·317

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·280	19·340	19·700	19·775	19·950	19·775	19·550	19·400	19·090	18·880	18·710	18·830	18·935
7·0	19·340	19·400	19·850	19·875	19·950					18·850	18·700	18·870	18·950
12·0	19·325	19·410	19·850	19·825	19·900					18·810	18·705	18·860	18·990
17·0	19·355	19·450	19·750	19·825	19·900					18·800	18·705	18·850	19·010
22·0	19·330	19·500	19·740	19·810	19·875					18·795	18·710	18·890	18·960
27·0	19·290	19·520	19·750	19·800	19·860					18·775	18·710	18·890	19·040
32·0	19·265	19·510	19·750	19·850	19·850	19·600	19·550	19·200	19·000	18·730	18·715	18·910	19·000
37·0	19·175	19·560	19·800	19·850	19·850					18·710	18·720	18·950	19·000
42·0	19·200	19·590	19·825	19·925	19·860					18·710	18·730	18·930	18·950
47·0	19·340	19·600	19·825	19·975	19·850					18·705	18·750	18·970	18·900
52·0	19·380	19·600	19·825	19·950	19·800					18·700	18·760	18·980	18·850
57·0	19·320	19·690	19·800	19·950	19·800					18·690	18·790	18·950	18·820
Therm.	77°0	77°3	78°1	80°0	81°5	82°5	83°5	84°0	84°8	85°1	84°5	83°0	81°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·22·50	3·12·30	3·44·25	3·31·35	2·35·25					3·17·00	2·24·50	2·25·00	3·24·50
8·0	4·22·50	3·12·30	4·02·50	3·31·35	2·15·50					3·10·00	2·24·50	2·34·60	3·24·50
13·0	4·22·50	3·12·30	4·02·50	3·21·55	2·12·95					3·10·00	2·24·50	2·34·60	3·24·50
18·0	3·48·20	3·12·30	3·42·00	3·21·55	2·12·95					3·10·00	2·24·50	2·34·60	3·24·50
23·0	3·28·40	3·12·30	3·42·00	3·21·55	1·47·10					3·01·50	2·24·50	2·37·00	3·27·70
28·0	3·09·00	3·34·00	3·42·00	3·21·55	1·47·10	3·00·50	3·43·10	3·39·50	3·17·00	3·01·50	2·19·00	2·41·00	3·27·70
33·0	3·00·80	3·34·00	3·33·00	3·16·70	1·47·10					3·01·50	2·19·00	2·44·00	3·31·50
38·0	3·00·80	3·34·00	3·28·00	3·10·50	1·36·50					2·45·50	2·19·00	3·04·00	3·31·50
43·0	3·00·80	3·34·00	3·28·00	3·10·50	1·36·50					2·45·50	2·19·00	3·09·00	3·36·60
48·0	3·12·30	3·45·25	3·48·25	2·48·50	1·35·00					2·45·50	2·25·00	3·13·60	3·38·60
53·0	3·12·30	3·45·25	3·27·25	2·41·20	1·45·75					2·39·00	2·25·00	3·13·60	3·38·60
58·0	3·12·30	3·44·25	3·31·35	2·35·25	2·01·50	2·01·50	3·11·50	3·17·00	3·17·00	2·34·00	2·25·00	3·18·60	3·32·10
Therm.	79°5	78°2	78°2	79°0	79°0	81°0	82°0	83°0	84°0	84°5	84°5	83°0	82°4

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16·04	16·40	16·09	15·51	15·40	15·51	16·04	16·04	16·04	16·04	15·61	16·04
5·0	15·92	16·40	16·09	15·51					16·04	16·04	15·61	16·04
10·0	15·82	16·35	16·04	15·51					16·09	16·04	15·61	16·04
15·0	15·77	16·35	16·04	15·51					16·09	15·97	15·61	16·04
20·0	16·04	16·35	15·92	15·40					16·09	15·97	15·66	16·14
25·0	16·04	16·30	15·92	15·30					16·09	15·97	15·66	16·19
30·0	16·04	16·30	15·71	15·40	15·40	15·51	15·04	16·04	16·09	15·97	15·77	16·14
35·0	16·09	16·24	15·71	15·40					15·97	15·97	15·77	16·24
40·0	16·09	16·24	15·61	15·40					15·97	15·56	15·92	16·19
45·0	16·14	16·24	15·51	15·25					16·04	15·56	16·04	16·14
50·0	16·40	16·14	15·51	15·25					16·04	15·56	15·97	16·19
55·0	16·40	16·14	15·51	15·25					16·04	15·56	15·97	16·19

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	19·200	19·280	19·410	19·160	18·620	18·350	18·356	18·120	18·180	18·190	18·530	18·750
7·0	19·200	19·300	19·440	19·110					18·180	18·200	18·540	18·740
12·0	19·200	19·360	19·440	19·100					18·150	18·200	18·600	18·800
17·0	19·200	19·400	19·440	19·050					18·150	18·240	18·580	18·800
22·0	19·180	19·400	19·400	18·980					18·140	18·240	18·630	18·840
27·0	19·150	19·360	19·370	18 910					18·140	18·240	18·620	18·900
32·0	19·140	19·360	19·350	18·850	18·700	18·550	18·100	18·120	18·120	18·250	18·640	18·900
37·0	19·140	19·380	19·340	18·810					18·110	18·250	18·670	18·880
42·0	19·180	19·440	19·320	18·800					18·110	18·420	18·660	18·880
47·0	19·190	19·440	19·320	18·850					18·110	18·440	18·690	18·750
52·0	19·190	19·410	19·300	18·750					18·100	18·450	18·740	18·710
57·0	19·230	19·400	19·250	18·650					18·120	18·490	18·740	18·700
Therm.	72°3	72°6	74°0	76°0	78°0	80°0	80°0	80°0	80°6	80°6	80°0	79°0

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'974	13'837	14'454	14'249	14'249	13'219	13'321	13'906	15'211	14'728	13'974	13'562	13'940
5·0	13·940	13·906	14·523	14·249	14·420					14·798	13·837	13·562	13·974
10·0	13·700	13·906	14·592	14·249	14·249					14·798	13·768	13·562	14·042
15·0	13·974	13·906	14·523	14·145	14·592					14·660	13·768	13·562	13·974
20·0	13·630	14·249	14·523	14·145	14·249					14·454	13·700	13·562	13·974
25·0	13·802	14·179	14·386	14·145	14·249					14·454	13·768	13·562	14·042
30·0	13·768	13·944	14·420	14·249	14·249	13·219	13·586	15·004	15·211	14·386	13·700	13·630	14·042
35·0	13·837	14·249	14·386	14·249	14·249					14·317	13·700	13·700	14·076
40·0	13·837	14·249	14·317	14·249	14·076					14·317	13·768	13·768	14·179
45·0	14·042	14·249	14·249	14·249	14·076					14·179	13·562	13·837	14·179
50·0	14·042	14·317	14·249	14·249	13·562					14·179	13·630	13·837	14·249
55·0	13·974	14·454	14·249	14·219	13·562					14·179	13·562	13·837	14·240

„ LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·225	20·320	20·660	20·725	20·700	20·400	20·150	19·790	19·240	19·170	19·210	19·270	19·305
7·0	20·265	20·355	20·700	20·700	20·700					19·180	19·205	19·270	19·250
12·0	20·345	20·400	20·750	20·750	20·550					19·210	19·200	19·250	19·250
17·0	20·335	20·400	20·800	20·750	20·500					19·210	19·180	19·250	19·250
22·0	20·255	20·450	20·800	20·725	20·525					19·210	19·210	19·250	19·230
27·0	20·230	20·550	20·800	20·750	20·350					19·220	19·220	19·270	19·190
32·0	20·225	20·600	20·750	20·750	20·500	20·250	20·100	19·410	19·190	19·230	19·220	19·290	19·175
37·0	20·240	20·600	20·700	20·725	20·500					19·230	19·200	19·330	19·165
42·0	20·225	20·700	20·700	20·700	20·470					19·210	19·200	19·320	19·155
47·0	20·300	20·670	20·750	20·700	20·450					19·210	19·220	19·310	19·140
52·0	20·285	20·700	20·725	20·725	20·400					19·210	19·230	19·310	19·110
57·0	20·335	20·650	20·750	20·700	20·400					19·205	19·230	19·310	19·085
Therm.	76°0	76°0	77°0	77°9	80°2	81°2	82°2	83°4	84°2	84°8	84°6	83°9	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	3·48·50	2·33·80	2·38·50	2·03·00	1·48·80					1·38·00	1·31·50	1·20·00	2·21·50
8·0	3·16·90	2·33·80	2·38·50	2·10·40	1·48·00					1·38·00	1·31·50	1·23·00	2·24·50
13·0	3·09·40	2·33·80	2·38·50	2·03·25	1·12·00					1·38·00	1·31·50	1·28·00	2·24·50
18·0	3·09·40	2·30·80	2·38·50	1·43·60	1·11·30					1·38·00	1·31·50	1·33·50	2·24·50
23·0	3·09·40	2·31·35	2·34·50	1·35·65	1·11·30					1·38·00	1·38·50	1·39·10	2·28·00
28·0	2·40·50	2·34·00	2·34·50	1·35·65	1·11·30	0·10·50	1·41·35	2·40·50	1·46·50	1·32·00	1·38·50	1·44·05	2·32·50
33·0	2·40·50	2·34·00	2·41·95	1·35·65	0·41·50					1·32·00	1·38·50	1·45·50	2·36·00
38·0	2·40·50	2·34·00	2·41·95	1·48·50	0·45·50					1·32·00	1·38·50	1·45·85	2·31·00
43·0	2·40·50	2·34·00	2·34·00	1·48·50	0·25·35					1·32·00	1·38·50	2·00·00	2·33·00
48·0	2·43·60	2·34·00	2·23·25	1·48·50	0·47·25					1·32·00	1·38·50	2·06·50	2·25·50
53·0	2·43·60	2·34·00	2·23·25	1·48·50	0·16·50					1·24·00	1·38·50	2·06·50	2·26·25
58·0	2·33·80	2·38·50	2·23·25	1·48·50	0·16·50	0·45·00	2·16·50	2·21·60	2·14·50	1·24·00	1·20·00	2·17·20	2·20·80
Therm.	78°0	76°8	76°5	77°0	78°2	80°0	81°0	82°0	83°2	84°4	84°5	83°3	84°1

TERM HOUR OBSERVATIONS ON THE 18TH AND 19TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15·66	16·09	16·04	16·14	15·26	14·99	16·04	17·13	16·30	15·82	15·30	15·51
5·0	15·66	16·09	16·04	16·19					16·30	15·71	15·19	15·51
10·0	15·61	16·04	16·04	16·30					16·30	15·61	15·30	15·51
15·0	15·61	16·04	16·04	16·19					16·14	15·40	15·30	15·55
20·0	15·82	16·04	16·97	16·09					16·14	15·35	15·35	15·56
25·0	15·77	16·14	16·04	16·04					16·09	16·04	15·25	15·56
30·0	15·92	16·30	16·04	15·92	14·99	15·51	17·13	16·56	16·09	16·04	15·25	15·97
35·0	15·87	16·24	16·04	15·87					16·04	16·04	15·25	15·97
40·0	15·92	16·19	16·04	15·71					16·04	15·30	15·35	15·97
45·0	15·97	16·09	16·04	15·66					16·04	15·30	15·51	15·97
50·0	15·97	16·04	16·04	15·45					16·04	15·25	15·45	15·97
55·0	15·97	16·04	16·09	15·40					15·97	15·25	15·45	15·97

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	19·970	20·090	20·030	19·850	19·570	19·000	18·300	17·700	18·010	18·220	18·700	18·910
7·0	19·970	20·090	20·000	19·790					18·040	18·300	18·700	18·810
12·0	19·980	20·140	20·000	19·740					18·090	18·300	18·750	18·890
17·0	19·980	20·140	19·980	19·710					18·100	18·310	18·760	18·900
22·0	20·030	20·140	19·970	19·710					18·100	18·350	18·780	18·900
27·0	20·080	20·120	19·940	19·780					18·100	18·450	18·800	18·890
32·0	20·110	20·100	19·940	19·730	19·250	18·700	17·900	17·960	18·110	18·480	18·800	18·860
37·0	20·140	20·020	19·930	19·710					18·110	18·500	18·860	18·870
42·0	20·140	20·010	19·950	19·680					18·110	18·500	18·900	18·860
47·0	20·120	20·000	19·920	19·610					18·140	18·600	18·900	18·850
52·0	20·110	20·000	19·900	19·600					18·160	18·640	18·910	18·850
57·0	20·110	20·010	19·880	19·580					18·190	18·650	18·940	18·810
Therm.	71°7	72°0	72°6	74°2	76°0	78°0	79°0	79°9	80°0	80°0	80°4	80°0

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·802	14·111	14·592	15·108	15·382	14·936	14·762	14·867	14·936	14·592	14·111	13·630	13·371
5·0	13·802	13·903	14·592	15·230	15·382					14·523	13·974	13·630	13·906
10·0	13·906	13·974	14·592	15·230	15·211					14·523	13·974	13 700	13·974
15·0	14·012	14·179	14·592	15·280	14 936					14·454	13·940	13·630	14·042
20·0	13·837	14·317	14·798	15·450	14·936					14·336	13·906	13·562	14·111
25·0	14·008	14·249	14·592	15·450	14·936					14·396	13·906	13·630	14·172
30·0	13·837	14·249	14·762	15·280	14·936	14·076	14·936	15·074	14·867	14·396	13·906	13·630	14·141
35·0	13·837	14·386	14·762	15·280	14·936					14·317	13·905	13·700	14·179
40·0	14·076	14·592	14·936	15·450	14·901					14·317	13·700	13·700	14·179
45·0	13·734	14·386	15·039	15·382	14·936					14·179	13·700	13·768	14·249
50·0	13·734	14·386	15·280	15·382	14·936					14·179	13·630	13·837	14·249
55·0	13·906	14·317	15·104	15·382	14·936					14·179	13·562	13·971	14·317

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·740	20·075	20·400	20·525	20·675	20·550	20·315	19·960	19·650	19·400	19·240	19·425	19·605
7·0	19·865	20·050	20·400	20·525	20·675					19·400	19·240	19·420	19·680
12·0	19·935	20·150	20·400	20·550	20·825					19·380	19·230	19·470	19·900
17·0	19·930	20·150	20·440	20·550	20·825					19·360	19·230	19·510	19·800
22·0	19·940	20·200	20·430	20·550	20·825					19·240	19·260	19·600	19·590
27·0	19·895	20·150	20·460	20·550	20·825					19·220	19·300	19·600	19·300
32·0	19·830	20·350	20·475	20·576	20·700	20·300	19·950	19·620	19·470	19·210	19·310	19·640	19·200
37·0	19·850	20·300	20·500	20·575	20·700					19·220	19·350	19·620	19·150
42·0	19·875	20·350	20·500	20·575	20·700					19·220	19·400	19·690	19·190
47·0	19·970	20·450	20·500	20 550	20·675					19·220	19·410	19·610	19·110
52·0	19·975	20·400	20·550	20·590	20·650					19·220	19·400	19·630	19·200
57·0	20·000	20·350	21·080	20·675	20·640					19·230	19·420	19·610	19·230
Therm.	76°8	77°0	78°0	80°0	81°2	82°2	83°4	84°0	84°5	84°5	83°9	82°8	81°7

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
8·0	3·47·00	2·36·50	2·14·50	2·13·50	1·24·25					1·00·00	1·09·00	1·39 50	2·49·00
8·0	3·35·50	2·40·50	2·14·50	2·13·50	1·24·25					1·00·00	1·09·00	1·39·50	3·00·50
13·0	3·35·50	2·40·50	2·14·50	2·13·50	1·24·25					1·00·00	1·09·00	1·41·50	3·48·00
18·0	3–2280	2·34·00	2·14·50	2·13·50	1·24·25					1·00·00	1·09·00	1·41·50	3·19·50
23·0	3·15·70	2·31·00	2·14·50	2·13·50	1·24·25					1·00·00	1·09·00	1·45·50	3·20·50
28·0	3·00·10	2·26·00	2·14·50	2·09·75	1·29·85	2·03·75	2·14·65	1·34·00	1·09·00	1·00.00	1·11·25	2·05·50	3·20·50
33·0	3·00·10	2·26·00	2·20·00	2·04·35	1·38·00					1·09·00	1·11·25	2·04·50	3·20·50
38·0	3·00·10	2·20·00	2·20·00	2·00·00	1·38·00					1·09·00	1·16·00	2·21·00	3·20·50
43·0	2·44·20	2·16·50	2·20·00	2·00·00	1·38·00	•				1·09·00	1·16·00	2·29·50	3·16·00
48·0	2·44·20	2·16·50	2·13·50	1·42·25	1·38·00					1·09·00	1·16·00	2·41·00	3·16·00
53·0	2·44·20	2·16·50	2·13·50	1·31·20	1·38·00					1·09·00	1·33·00	2·44·00	3·14·50
58·0	2·36·50	2·14·50	2·13·50	1·24.25	1·40·60	2·07·75	1·44·50	1·17·00	1·00·00	1·09·00	1·33·05	2·48·00	3·24·50
Therm.	78°5	77°5	77·0	78°5	79°0	80°5	81°5	82°5	83°2	83°6	83°6	82°7	83°4

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16·04	16·19	16·71	17·13	16·97	16·82	17·08	16·56	16·45	16·04	15·51	15·51
5·0	16·04	16·19	16·92	17·08					16·45	15·92	15·51	15·51
10·0	16·04	16·24	16·97	17·08					16·24	15·82	15·51	15·61
15·0	16·04	16·24	17·02	17·08					16·24	15·82	15·51	16·04
20·0	16·04	16·30	17·02	17·02					16·14	15·82	15·45	16·04
25·0	16·09	16·30	17·02	17·02					16·14	15·71	15·45	16·04
30·0	16·09	16·40	17·06	17·02	16·56	16·82	17·02	16·56	16·09	15·71	15·45	16·04
35·0	16·09	16·50	17·08	17·02					16·09	15·66	15·45	16·04
40·0	16·14	16·56	17·08	16·97					16·04	15·61	15·45	16·04
45·0	16·14	16·56	17·13	16·97					16·04	15·61	15·45	16·04
50·0	16·14	16·61	17·13	16·97					16·04	15·51	15·45	16·04
55·0	16·14	16·66	17·13	16·97					16·04	15·51	15·51	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	19·350	19·500	19·700	19·870	19·880	19·300	18·990	18·950	18·730	18·640	18·960	19·310
7·0	19·350	19·500	19·690	20·000					18·730	18·660	18·990	19·310
12·0	19·360	19·510	19·690	20·000					18·710	18·690	18·990	19·500
17·0	19·360	19·510	19·700	20·060					18·700	18·690	19·090	19·600
22·0	19·390	19·520	19·700	20·080					18·680	18·690	19·160	19·450
27·0	19·400	19·560	19·700	20·090					18·550	18·710	19·200	19·100
32·0	19·400	19·600	19·720	20·040	19·800	18·900	18·800	19·810	18·560	18·750	19·260	18·910
37·0	19·400	19·600	19·760	19·975					18·560	18·760	19·280	18·810
42·0	19·410	19·610	19·760	19·900					18·560	18·770	19·300	18·900
47·0	19·410	19·640	19·740	19·850					18·600	18·790	19·300	18·840
52·0	19·440	19·670	19·740	19·850					18·610	18·800	19·300	18·900
57·0	19·470	19·700	19·800	19·800					18·620	19·910	19·310	18·960
Therm.	72°1	72°4	73°7	75°0	76°0	78°0	99°6	80°0	80°0	80°0	79°1	76°0

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·936	14·317	14·592	14·249	14·967	14·592	14·592	15·623	16·034	15·966	15·348	15·142	15·038
5·0	14·660	14·386	14·592	14·420	14·936					15·897	15·314	15·074	14·936
10·0	14·728	14·454	14·592	14·317	14·936					15·697	15 314	14·936	15·074
15·0	14·762	14·249	14·660	14·592	14·592					15·862	15·280	14·936	15·142
20·0	14·694	14·249	14·728	14·592	14·592					15·760	15·280	14·936	15·211
25·0	14·317	14·249	14·936	14·762	14·936					15·623	15·211	14·867	15·142
30·0	14·283	14·454	14·592	14·936	14·592	14·420	15·108	15,828	16·102	15·553	15·211	14·867	15·142
35·0	14·317	14·592	14·249	14·936	14·592					15·553	15·211	14·867	15·142
40·0	14·213	14·592	14·249	14·936	14·592					15·486	15·280	14·728	15·142
45·0	14·145	14·592	14·592	15·074	14·592					15·348	15·211	14·728	15·211
50·0	14·111	14·592	14·592	15·074	14·592					15·348	15·211	14·728	15·280
55·0	14·179	14·249	14·249	14·936	14·592					15·348	15·211	14·798	15·343

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·565	18·640	18·970	19·050	19·150	18·950	18·650	18·310	18·050	17·530	17·395	17·450	17·610
7·0	18·620	18·650	18·970	18·880	19·100					17·500	17·395	17·460	17·600
12·0	18·630	18·660	18·970	18·920	19·100					17·500	17·390	17·500	17·610
17·0	18·460	18·800	18·970	18·970	19·140					17·500	17·380	17·510	17·640
22·0	18·410	18·800	18·970	19·000	19·100					17·500	17·360	17·510	17·600
27·0	18·515	18·800	18·553	19·025	19·100					17·450	17 340	17·510	17·600
32·0	18·540	18·870	18·557	19·040	19·100	18·850	18·500	18·110	17·650	17·445	17·380	17·540	17·540
37·0	18·505	18·840	19·000	19·050	19·025					17·410	17·380	17·590	17·530
42·0	18·500	18·900	19·050	19·070	19·025					17·400	17·380	17·580	17·560
47·0	18·400	18·900	19·050	19·070	19·050					17·400	17·390	17·550	17·550
52·0	18·500	18·900	19·100	19·050	18·975					17·400	17·400	17·590	17·600
57·0	19·555	18·930	19·050	19·050	18·975					17·400	17·450	17·600	17·600
Therm.	76°6	76°8	77°4	79°0	80°9	82°0	83°2	83°7	84°5	84°6	84°0	82°7	81°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	3·35·30	2·42·70	2·30·00	2·11·75	2·38·75					2·15·75	2·00·00	1·49·00	2·01·00
8·0	3·22·90	2·42·70	2·30·00	2·11·75	1·49·50					2·15·75	2·00·00	1·49·00	2·00·47
13·0	3·08·00	2·42·70	2·30·00	2·26·00	1·28·15					2·15·75	2·00·00	1·49·00	2·06·50
18·0	3·08·00	2·42·70	2·30·00	2·26·00	1·45·40					2·15·75	2·13·50	1·49·00	2·06·50
23·0	2·45·30	2·42·70	2·23·00	2·26·00	1·29·50					2·04·00	2·22·50	1·49·00	1·49·50
28·0	2·45·30	2·42·70	2·10·00	2·11·75	1·39·50	2·29·65	3·06·00	3·06·00	2·30·00	2·04·00	2·22·50	1·40·00	2·00·00
33·0	2·36·70	2·42·45	2·10·00	2·11·75	1·37·95					2·04·00	2·22·50	1·39·00	2·04·50
38·0	2·36·70	2·42·50	2·20·75	2·10·25	1·37·95					2·04·00	2·22·50	1·41·75	2·01·50
43·0	2·36·70	2·42·50	2·05·00	2·10·25	1·48·50					2·04·00	2·22·50	1·34·00	2·02·52
48·0	2·28·90	2·42·50	2·13·50	2·06·40	1·48·50					2·04·00	2·13·50	1·33·50	2·22·00
53·0	2·28·90	2·42·50	2·13·50	2·00·40	1·48·50					2·04·00	2·05·00	1·41·50	2·12·00
58·0	2·42·70	2·30·00	2·11·75	2·38·75	2·03·75	2·48·25	3·06·00	2·39·50	2·15·75	2·00·00	1·49·00	2·00·50	2·11·50
Therm.	78°5	77°2	77°2	77°5	78°5	80°5	81°5	82°4	83°1	84°0	84°2	82°5	83°2

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16·04	16·24	16·14	16·50	16·04	16·30	17·34	17·60	17·65	17·08	16·76	16·40
5·0	16·04	16·24	16·14	16·50					17·60	17·08	16·76	16·40
10·0	16·09	16·19	16·14	16·56					17·53	16·97	16·61	16·40
15·0	16·14	16·19	16·14	16·30					17·48	16·97	16·61	16·61
20·0	16·14	16·19	16·14	16·24					17·39	16·82	16·61	16·61
25·0	16·19	16·30	16·19	16·24					17·34	16·82	16·61	16·61
30·0	16·19	16·30	16·19	16·24	16·04	16·56	17·60	18·06	17·34	16·87	16·61	16·61
35·0	16·19	16·30	16·24	16·14					17·23	16·87	16·50	16·71
40·0	16·24	16·19	16·56	16·09					17·13	16·87	16·50	16·71
45·0	16·24	16·19	16·66	16·19					17·13	16·87	16·60	16·71
50·0	16·24	16·14	16·56	16·19					17·08	16·82	16·50	16·76
55·0	16·24	16·14	16·61	16·04					17·08	16·82	16·50	16·76

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	18·150	18·310	18·400	18·330	18·190	17·500	16·900	16·800	16·650	16·690	16·860	17·100
7·0	18·190	18·310	18·400	18·350					16·680	16·690	16·890	17·100
12·0	18·200	18·320	18·340	18·340					16·670	16·690	16·900	17·110
17·0	18·200	18·320	18·340	18·390					16·680	16·690	16·900	17·170
22·0	18·240	18·400	18·340	18·340					16·680	16·710	16·960	17·170
27·0	18·240	18·400	18·340	18·330					16·680	16·700	16·960	17·170
32·0	18·240	18·400	18·340	18·310	17·900	17·300	16·900	16·700	16·690	16·700	16·960	17·170
37·0	18·200	18·350	18·390	18·290					16·690	16·750	17·000	17·170
42·0	18·220	18·170	18·380	18·250					16·660	16·750	17·000	17·170
47·0	18·300	18·390	18·320	18·250					16·650	16·750	17·000	17·190
52·0	18·300	18·400	18·300	18·220					16·650	16·300	17·040	17·190
57·0	18·300	18·400	18·340	18·200					16·680	16·310	17·060	17·200
Therm.	72°0	72°0	73°0	74°3	76°8	77°5	78°2	79°9	80°1	80°0	79°6	78°4

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	16′136	14′386	13′768	14′249	14′249	14′592	15′485	15′553	15′280	14′728	15′074	14′660	17′339
5·0	15·897	14·351	13·906	14·249	14·420					14·728	15·074	14·728	17·339
10·0	15·416	14·249	13·700	14·111	14·249					14·523	15·004	15·280	16·858
15·0	14·867	14·249	13·837	14·386	14·249					14·523	15·074	15·485	16·240
20·0	14·660	14·042	13·700	14·249	14·317					14·523	15·211	15·623	15·760
25·0	14·249	13·768	13·425	14·420	14·317					14·523	15·348	15·966	15·485
30·0	14·145	13·903	13·562	14·592	13·974	14·592	14·249	15·280	14·936	14·454	15·348	16·240	15·348
35·0	13·768	13·974	13·562	14·420	14·042					14·592	15·280	16·447	15·348
40·0	13·562	14·936	13·562	14·523	14·249					14·592	14·592	16·858	15·348
45·0	13·734	14·592	13·734	14·454	14·249					14·660	14·936	16·966	15·280
50·0	13·974	14·386	13·562	14·454	14·592					14·728	14·798	17·201	15·074
55·0	14·249	14·842	14·592	14·454	14·592					14·728	14·592	17·407	15·211

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	17·230	17·555	18·000	18·200	17·900	17·800	17·400	16·960	17·130	17·050	16·680	16·600	17·340
7·0	17·310	17·600	18·050	18·110	17·850					17·040	16·680	16·600	17·320
12·0	17·335	17·600	18·100	18·125	17·825					17·040	16·680	16·630	17·280
17·0	17·525	17·240	18·100	17·975	17·790					17·010	16·690	16·560	17·160
22·0	17·500	17·280	18·150	18·025	17·790					16·980	16·700	16·670	17·080
27·0	17·620	17·320	18·190	18·050	17·825					16·980	16·710	16·920	16·980
32·0	17·600	17·400	18·200	17·990	18·150	17·975	71·150	17·090	17·120	16·920	16·700	17·030	16·900
37·0	17·490	17·480	18·150	17·990	18·125					16·860	16·720	17·250	16·880
42·0	17·700	17·400	18·250	17·950	17·850					16·820	16·680	17·350	16·900
47·0	17·610	17·360	18·275	17·900	17·825					16·800	16·620	17·340	16·900
52·0	17·685	18·100	18·300	17·900	17·815					16·730	16·650	17·390	16·910
57·0	17·575	17·966	18·300	17·940	17·825					16·710	16·650	17·400	16·950
Therm.	77°2	77°3	78°0	79°5	81°2	82°2	83°2	83°2	83°9	84°0	83°5	82°3	82°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	4·25·50	3·25·10	3·25·00	4·22·70	4·24·95					4·03·00	4·20·00	4·25·00	5·28·50
8·0	3·13·10	3·09·00	3·25·00	4·22·70	4·24·95					4·03·00	4·20·00	4·11·50	5·16·00
13·0	2·00·30	3·01·00	3·25·00	4·14·00	4·24·95					4·03·00	4·29·50	5·04·00	4·36·50
18·0	3·00·80	3·01·00	3·25·00	4·09·70	4·08·20					4·06·50	4·28·50	4·48·50	4·19·00
23·0	2·43·10	3·01·00	3·25·00	4·21·25	4·08·20					4·06·50	4·28·50	4·48·50	4·10·00
28·0	1·46·10	3·19·50	3·37·00	4·22·00	4·16·55	3·37·50	4 31·80	4·10·50	4·10·50	4·06·50	4·28·50	5·10·00	4·10·00
33·0	2·06·70	3·26·00	3·37·00	4·26·20	4·12·20					4·06·50	4·30·50	5·19·00	4·18·50
38·0	2·24·20	3·26·00	4·09·50	4·18·25	4·12·20					4·18·50	4·30·50	5·16·50	4·19·50
43·0	2·24·20	3·09·00	4·02·50	4·27·20	4·40·20					4·18·50	4·20·00	5·16·50	4·18·50
48·0	3·07·90	3·09·00	4·02·50	4·29·65	4·40·25					4·18·50	4·13·25	5·16·50	4·18·50
53·0	3·07·90	3·09·00	4·02·50	4·29·65	4·40·25					4·18·50	4·04·50	5·27·50	4·18·50
58·0	3·25·10	3·25·00	4·05·85	4·24·95	4·30·50	4·11·20	4·49·50	4·10·50	4·10·50	4·20·00	3·47·90	5·23·50	4·20·50
Therm.	79°5	78°0	77°5	78°0	79°0	80°5	81°5	82°0	82°5	83°2	83°4	82°3	82°7

TERM HOUR OBSERVATIONS ON THE 25TH AND 26TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	16·04	15·04	15·40	16·04	16·35	16·82	17·39	16·56	16·14	16·30	16·09	18·36
5·0	16·04	14·99	15·51	16·04					16·14	16·30	16·45	18·70
10·0	15·71	14·99	15·51	16·04					16·09	16·30	16·82	18·23
15·0	15·71	14·93	16·04	16·04					16·09	16·40	17·08	17·65
20·0	15·51	14·78	16·04	15·97					16·09	16·56	17·08	17·39
25·0	15·51	14·99	16·04	16·04					16·09	16·76	17·34	16·97
30·0	15·51	14·99	16·09	15·92	16·40	17·08	17·02	16·56	16·04	16·76	17·43	16·82
35·0	15·56	14·99	16·09	15·97					16·04	16·66	17·60	16·82
40·0	15·35	15·09	16·09	15·97					16·04	16·61	17·60	16·82
45·0	15·04	15·09	16·14	16·24					16·04	16·45	18·54	16·66
50·0	14·99	15·09	16·14	16·30					16·14	16·30	18·65	16·56
55·0	14·99	15·19	16·09	16·30					16·19	16·09	18·65	16·61

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	17·000	17·320	17·400	16·900	16·420	16·375	16·780	16·110	16·310	16·000	16·090	16·940
7·0	17·000	17·380	17·350	16·810					16·340	16·000	16·050	16·900
12·0	17·100	17·430	17·300	16·800					16·340	16·000	16·090	16·930
17·0	17·090	17·500	17·160	16·800					16·340	16·060	15·040	16·840
22·0	17·110	17·510	17·110	16·790					16·300	16·100	16·010	16·730
27·0	17·200	17·520	17·110	16·850					16·270	16·170	16·110	16·600
32·0	17·160	17·600	17·100	16·940	16·980	16·950	16·000	16·100	16·240	16·170	16·400	16·550
37·0	17·160	17·510	17·100	17·050					16·200	16·210	16·700	16·540
42·0	17·230	17·550	17·090	16·890					16·160	16·150	16·800	16·550
47·0	17·310	17·590	17·030	16·600					16·140	16·100	16·900	16·610
52·0	17·320	17·600	16·950	16·570					16·090	16·110	16·990	16·600
57·0	17·340	17·550	16·920	16·510					16·040	16·110	16·990	16·680
Therm.	73°0	73°2	73°9	75°0	76°0	78°0	79°4	79°9	80°0	79°8	79°0	78°0

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH NOVEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.	°	°	°	°	°	°	°	°	°	°	°	°	°
0·0	13·974	13·562	14·592	14·936	13·734	12·703	12·533	14·042	15·142	15·004	14·936	14·762	14·454
5·0	14·249	13·680	14·386	15·104	13·734					15·004	15·004	14·728	14·523
10·0	13·680	13·900	14·660	15·074	13·562					15·004	14·867	14·660	14·523
15·0	13·906	13·837	14·936	14·592	13·562					15·004	14·798	14·523	14·557
20·0	13·630	13·596	14·936	14·592	13·219					15·074	14·798	14·454	14·660
25·0	13·493	13·906	15·004	14·592	13·562					15·074	14·867	14·454	14·660
30·0	13·202	13·837	15·074	14·592	13·219	12·533	13·219	14·660	15·004	15·004	14·867	14·386	14·694
35·0	13·768	14·042	15·280	14·592	13·219					14·936	14·867	14·317	14·728
40·0	13·768	13·906	15·108	14·076	12·876					14·936	14·867	14·249	14·728
45·0	13·425	13·974	14·867	14·076	12·876					14·936	14·867	14·386	14·728
50·0	13·562	14·179	14·936	13·734	12·876					14·867	14·867	14·386	14·660
55·0	13·596	14·249	14·936	13·734	12·703					14·867	14·867	14·454	14·660

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	20·525	20·675	20·850	21·050	21·275	21·250	21·075	20·780	20·590	20·250	20·450	19·860	19·930
7·0	20·515	20·620	20·860	21·050	21·325					20·260	19·980	19·850	19·940
12·0	20·490	20·650	20·810	21·100	21·325					20·260	19·960	19·880	19·900
17·0	20·600	20·600	20·905	21·110	21·325					20·240	19·930	19·870	19·830
22·0	20·590	20·600	20·930	21·110	21·300					20·190	19·910	19·870	19·860
27·0	20·550	20·750	20·950	21·150	21·300					20·170	19·895	19·870	19·860
32·0	20·630	20·700	20·950	21·150	21·300	21·200	20·975	20·680	20·500	20·150	19·880	19·900	19·870
37·0	20·630	20·750	20·975	21·150	21·300					20·120	19·870	19·930	19·870
42·0	20·635	20·840	20·550	21·200	21·300					20·080	19·875	19·930	19·910
47·0	20·625	20·760	21·025	21·210	21·275					20·100	19·880	19·920	19·910
52·0	20 675	20·800	21·025	21·210	21·250					20·090	19·860	19·740	19·910
57·0	20·690	20·800	21·050	21·300	21·250					20·090	19·850	18·940	19·900
Therm.	72°2	71°6	73°0	75°0	76°0	77°4	78°0	78°4	78°9	79°0	78°9	77°9	76°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	0·33·20	1·26·10	2·06·00	1·25·50	0·35·90					1·08·80	1·15·50	1·19·00	1·35·50
8·0	0·33·20	1·26·10	1·49·00	1·25·50	0·12·50					1·08·80	1·15·50	1·19·00	1·33·50
13·0	1·02·50	1·36·00	1·49·00	1·34·25	0·00·75					1·08·50	1·15·50	1·11·00	1·33·50
18·0	1·07·30	1·37·00	1·49·00	0·41·90	0·11·00					1·08·80	1·15·50	1·09·00	1·46·50
23·0	1·07·30	1·37·00	2·03·50	0·41·90	0·11·00					1·08·80	1·22·50	1·12·50	1·46·50
28·0	0·49·70	2·01·50	2·03·50	0·42·65	0·11·00	-0·37·70	0·43·25	1·05·75	1·80·80	1·08·80	1·22·50	1·12·50	2·00·50
33·0	1·10·50	2·01·50	2·03·50	0·42·65	0·11·00					1·10 50	1·28·00	1·12·50	2·00·50
38·0	1·20·50	2·01·50	2·03·50	1·10·50	0·11·00					1·10·50	1·28·00	1·20·00	2·00·50
43·0	1·20·50	2·01·50	2·03·50	1·10·50	-0·44·65					1·17·00	1·28·00	1·20·00	2·02·00
48·0	1·26·10	2·01·50	1·47·00	0·28·55	-0·44·65					1·17·00	1·21·50	1·20·00	2·02·00
53·0	1·26·10	2·01·50	1·40·25	0·22·55	-0·37·70					1·17·00	1·21·50	1·24·50	2·02·00
58·0	1·26·10	2·06·00	2·06·95	0·35·90	-0·37·70	-0·25·25	0·42·75	1·08·80	1·08·80	1·15·50	1·19·00	1·27·50	2·02·00
Therm.	74°8	73°0	73°0	73°5	74°5	75°0	76°5	77°5	78°0	78°5	79°0	78°0	78°5

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH NOVEMBER 1847.

SMALL DECLINATION MAGNETOMETER (in arc).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14·99	15·77	16·30	15·40	14·20	14·47	15·77	16·82	16·61	16·56	16·56	15·92
5·0	14·99	15·97	16·40	15·25					16·82	16·56	16·50	16·09
10·0	14·99	15·97	16·40	15·14					16·76	16·56	16·45	16·24
15·0	14·99	15·97	16·40	14·99					16·82	16·56	16·30	16·40
20·0	15·09	16·04	16·30	14·99					16·76	16·56	16·09	16·45
25·0	15·09	16·04	16·24	14·93					16·71	16·56	16·04	16·45
30·0	15·30	16·09	16·09	14·78	14·99	14·99	16·56	16·76	16·61	16·56	16·04	16·50
35·0	15·40	16·19	16·04	14·67					16·61	16·56	15·97	16·56
40·0	15·40	16·19	16·92	14·47					16·56	16·56	15·97	16·56
45·0	15·51	16·30	15·77	14·47					16·56	16·56	15·92	16·56
50·0	15·51	16·30	15·71	14·25					16·56	16·56	15·87	16·56
55·0	15·77	16·30	15·56	14·20					16·56	16·56	15·92	16·56

SMALL HORIZONTAL FORCE (in Scale Readings).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	19·450	19·300	19·380	19·400	19·440	19·100	18·640	18·100	18·000	17·850	17·850	18·050
7·0	19·450	19·310	19·340	19·400					17·980	17·850	17·840	18·050
12·0	19·450	19·310	19·340	19·390					17·960	17·850	17·840	18·020
17·0	19·430	19·310	19·340	19·380					17·950	17·820	17·860	18·000
22·0	19·410	19·340	19·350	19·350					17·940	17·840	17·840	17·990
27·0	19·410	19·340	19·350	19·340					17·950	17·840	17·890	17·980
32·0	19·400	19·340	19·380	19·320	19·300	18·900	18·460	18·050	17·940	17·840	17·930	17·990
37·0	19·390	19·360	19·360	19·350					17·910	17·830	17·950	18·030
42·0	19·360	19·400	19·370	19·370					17·900	17·790	17·910	18·030
47·0	19·340	19·400	19·360	19·400					17·890	17·780	17·970	18·100
52·0	19·340	18·400	19·380	19·430					17·860	17·810	17·990	18·110
57·0	19·300	19·390	19·390	19·460					17·850	17·840	18·000	18·150
Therm.	66·9	67·6	69·0	70·3	71·9	73·0	74·0	74·3	75·0	75·0	74·2	74·0

TERM HOUR OBSERVATIONS ON THE 30TH NOVEMBER AND 1ST DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'355	13'837	14'367	16'102	15'966	14'936	13'802	13'355	13'750	13'837	14'179	13'906	13'871
5·0	13·093	13·837	15·004	16·102	15·966					13·837	14·179	13·906	13·906
10·0	13·630	13·837	15·211	16·309	15·966					13·837	14·042	13·974	13·974
15·0	13·562	13·906	15·211	16·309	15·760					13·837	13·974	13·630	14·110
20·0	13·493	14·042	15·348	16·447	15·108					14·042	14·042	13·700	14·179
25·0	13·425	14·042	15·348	16·447	15·108					14·249	13·974	13·700	14·179
30·0	13 355	14·179	15·828	16·515	15·280	14·249	13·562	13·493	13·768	14·386	13·974	13·562	14·249
35·0	13·425	14·317	15·828	16·515	15·280					14·386	13·974	13·630	14·317
40·0	13·425	14·386	15·966	16·515	15·280					14·400	13·974	13·630	14·386
45·0	13·630	14·454	15·966	16·309	15·280					14·386	13·974	13·700	14·386
50·0	13·562	14·523	15·966	16·102	15·108					14·386	13·906	13·837	14·386
55·0	13·562	14·592	16·034	16·102	15·108					14·386	13·837	13·906	14·386

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·050	20·600	20·890	20·900	20·850	20·730	20·440	19·940	19·780	19·000	19·090	19·140	19·470
7·0	20·230	20·670	20·900	20·900	20·800					19·000	19·080	19·130	19·480
12·0	20·310	20·700	20·910	20·880	20·790					19·020	19·070	19·150	19·490
17·0	20·300	20·710	20·910	20·880	20·790					19·030	19·040	19·200	19·440
22·0	20·320	20·790	20·910	20·840	20·775					19·060	19·020	19·250	19·450
27·0	20·400	20·750	20·930	20·820	20·775					19·055	19·040	19·310	19·400
32·0	20·420	20·800	20·900	20 800	20·740	20·650	20·300	19·550	19·250	19·055	19·020	19·400	19·440
37·0	20·420	20·810	20·900	20·800	20·720					19·090	19·050	19·400	19·480
42·0	20·380	20·820	20·900	20·820	20·720					19·080	19·090	19·400	19·480
47·0	20·390	20·860	20·920	20·890	20·750					19·090	19·100	19·400	19·450
52·0	20·460	20·865	20·920	20·880	20·720					19·090	19·100	19·410	19·480
57·0	20·610	20·865	20·920	20·900	20·700					19·090	19·110	19·410	19·420
Therm.	76°5	76°8	78°0	79°5	80°9	82°0	83°0	84°0	84°4	84°7	84°5	84°0	82°9

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·03·00	1·21·50	1·38·00	1·26·90	−0·16·00					−0·25·00	−0·02·00	0·06·00	1·14·50
8·0	1·03·00	1·31·50	1·38·00	1·26·90	−0·16·00					−0·11·50	0·11·0	0·06·00	2·14·00
13·0	0·48·00	1·31·50	1·40·50	1·15·50	−1·02·00					−0·11·50	0·23·50	0·06·00	2·12·45
18·0	1·00·50	1·25·00	1·44·00	1·25·75	−1·02·00					−0·11·50	0·26·50	0·22·00	2·03·50
23·0	1·03·50	1·28·00	1·42·00	0·41·80	−1·15·20					−0·08·50	0·31·00	0·28·00	2·04·50
28·0	0·43·00	1·27·50	1·42·50	0·19·75	−1·17·50	−1·08·50	−1·08·25	−0·45·50	−1·18·00	−0·08·50	0·31·00	0·43·20	1·48·00
33·0	0·44·50	1·32·50	1·44·00	0·19·90	−1·37·00					−0·08·50	0·20·50	1·03·00	2·04·00
38·0	0·49·00	1·32·50	1·44·30	0·12·50	−1·37·00					−0·08·50	0·14·50	0·41·00	2·04·30
43·0	1·08·00	1·32·50	1·44·30	−0·03·25	−1·37·00					−0·08·50	0·10·50	1·08·00	2·14·00
48·0	1·03·00	1·32·50	1·34·20	−0·32·50	−1·37·00					−0·08·50	0·05·50	1·25·00	2·14·00
53·0	1·13·50	1·32·50	1·31·20	−0·32·50	−1·37·00					−0·08·50	0·04·50	1·33·25	2·12·00
58·0	1·13·50	1·32·50	1·31·20	−0·06·00	−0·49·70	−0·43·69	−1·06·00	−1·18·00	−0·25·00	−0·02·00	0·00·00	1·14·50	2·22·50
Therm.	79°5	78°5	79°5	78°1	78°8	80°0	81°0	82°5	82°8	84°5	84°5	84°0	84°0

TERM HOUR OBSERVATIONS ON THE 30TH NOVEMBER AND 1ST DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15·09	16·14	17·34	17·48	16·14	15·25	14·98	15·30	15·51	15·87	15·40	14·99
5·0	15·09	16·19	17·43	17·48					15·51	15·87	15·19	14·99
10·0	15·09	16·19	17·60	17·39					15·51	15·71	15·09	15·09
15·0	15·14	16·40	17·60	17·23					15·61	15·71	15·09	15·19
20·0	15·30	16·50	17·70	17·13					15·61	15·61	15·04	15·19
25·0	15·30	16·50	17·70	16·92					15·61	15·61	15·04	15·30
30·0	15·51	16·71	17·70	16·71	15·77	15·25	14·99	15·51	15·61	15·61	15·04	15·40
35·0	15·51	16·97	17·70	16·61					15·77	15·51	14·99	15·40
40·0	15·61	17·02	17·70	16·61					15·77	15·51	14·99	15·40
45·0	15·77	17·02	17·60	16·61					15·77	15·51	14·99	15·51
50·0	15·92	17·13	17·60	16·40					15·77	15·40	14·99	15·51
55·0	16·04	17·13	17·60	16·30					15·87	15·40	14·99	15·51

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	19·500	19·670	19·700	19·560	19·420	18·800	18·680	18·080	17·910	18·100	18·270	18·710
7·0	19·500	19·670	19·700	19·600					17·910	18·110	18·300	18·710
12·0	19·500	19·670	19·700	19·550					17·910	18·110	18·300	18·740
17·0	19·510	19·670	19·680	19·550					17·970	18·110	18·340	18·740
22·0	19·570	19·670	19·660	19·560					18·000	18·110	18·390	18·740
27·0	19·600	19·670	19·620	19·550					18·000	18·140	18·460	18·770
32·0	19·610	19·670	19·600	19·500	19·200	18·800	18·300	18·00	18·000	18·140	18·590	18·790
37·0	19·630	19·670	19·600	19·500					18·000	18·160	18·640	18·800
42·0	19·650	19·670	19·640	19·490					18·020	18·160	18·670	18·800
47·0	19·650	19·700	19·700	19·460					18·040	18·200	18·670	18·800
52·0	19·660	19·700	19·710	19·410					18·070	18·200	18·690	18·800
57·0	19·670	19·700	19·740	19·420					18·090	18·240	18·690	18·810
Therm.	73°1	73°6	74°2	75°9	77°2	78°5	80°0	80°9	81°0	81°2	81°0	80°0

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13'837	13'219	14'249	13'700	13'974	13'013	14'249	13'700	13'562	14'111	13'906	13'837	13'906
5·0	13.837	13.219	14.249	13.700	13.734					14.042	13.906	13.768	13.906
10·0	13.562	13.150	14.111	13.906	13.700					14.042	13.940	13.768	14.111
15·0	13.630	13.355	13.906	13.906	13.630					14.042	13.940	13.630	14.179
20·0	13.219	13.287	13.700	13.906	13.630					14.111	13.871	13.630	14.213
25·0	13.219	13.630	13.425	13.974	13.562					14.068	13.871	13.630	14.317
30·0	13.219	13.768	13.425	14.249	13.493	12.876	13.047	13.425	13.837	13.974	13.906	13.630	14.386
35·0	13.562	13.768	13.389	14.042	13.493					13.906	13.837	13.630	14.592
40·0	13.425	14.249	13.389	14.249	13.562					13.906	13.837	13.630	14.454
45·0	13.425	14.249	13.562	14.249	13.287					13.906	13.837	13.700	14.386
50·0	13.493	14.386	13.562	14.249	13.287					13.974	13.837	13.837	14.454
55·0	13.355	14.317	13.630	14.249	13.219					13.974	13.837	13.837	14.451

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	18·910	19·020	19·100	19·850	19·925	19·650	18·900	18·830	18·395	18·120	17·850	18·150	18·500
7·0	18·900	19·100	19·100	19·850	19·875					18·140	17·860	18·170	18·510
12·0	18·900	19·150	19·350	19·850	19·890					18·150	17·860	18·250	18·480
17·0	18·900	19·125	19·430	19·750	19·900					18·150	17·880	18·300	18·490
22·0	19·050	19·095	19·500	19·800	19·880					18·130	17·890	18·340	18·525
27·0	19·100	19·050	19·650	19·800	19·800					18·120	17·940	18·370	18·435
32·0	19·050	19·100	19·800	19·750	19·800	19·255	19·050	18·740	18·250	18·105	17·910	18·390	18·400
37·0	19·100	19·050	19·850	19·700	19·850					18·100	18·000	18·460	18·290
42·0	19·070	19·100	19·900	19·650	19·850					18·090	18·040	18·500	18·300
47·0	19·000	19·090	19·900	19·700	19·700					17·995	18·050	18·510	18·280
52·0	18·900	19·140	19·950	19·800	19·775					17·920	18·070	18·520	18·150
57·0	19·100	19·300	19·790	19·875	19·725					17·900	18·100	18·550	18·140
Therm.	78°0	78°0	79°0	80°5	82°0	83°0	84°0	84°9	85°0	84°8	84°6	83°0	82°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·33·70	0·09·80	0·27·50	0·41·70	0·00·33					0·48·50	0·27·50	0·31·50	0·39·50
8·0	1·33.70	0·18·00	0·28·00	0·41·70	0·13·55					0·48.50	0·27·50	0·31·50	0·39·50
13·0	1·17.20	0·20.00	0·25.25	1·29.15	0·13·55					0·48.50	0·27·50	0·31·50	0·41·00
18·0	0·22.50	0·20·00	0·20·00	1·29·15	0·13.55					0·48.50	0·27·50	0·33·00	0·41·00
23·0	0·18.50	0·33.50	0·18.20	0·34·00	0·13·55					0·37.50	0·27·50	0·30·00	0·40.90
28·0	-0·04.00	0·44.50	0·11.10	0·43·80	0·13·55	0·39·10	0·03.85	0·20.00	0·26.00	0·33.00	0·31·00	0·29·00	0·48.50
33·0	-0·00.00	0·41·75	0·11·10	0·43.80	0·33·75					0·27·50	0·07·90	0·30·00	1·08.25
38·0	0·02.00	0·36.00	0·34.15	0·43.80	0·33·75					0·27·50	0·07·90	0·34.35	0·46.20
43·0	0·02.00	0·48.50	0·34.15	1·03.95	0·02·25					0·27·50	0·28·90	0·34·35	0·46·20
48·0	0·09.50	1·11.00	0·23.85	0·35.10	0·13·65					0·27·50	0·30·00	0·34.35	0·46.30
53·0	0·09.50	1·11.00	0·23.85	0·23.15	0·02.05					0·27·50	0·30·00	0·34.35	0·46.20
58·0	0·09.80	1·04.00	1·32.15	0·12.00	0·12·45	0·20·45	0·39·85	0·16·25	0·48.50	0·27·50	0·31·50	0·39·50	1·11·30
Therm.	80°7	79°6	79°0	79°5	80°5	81°5	82°5	83°0	84°0	84°2	84°0	83°7	83°4

TERM HOUR OBSERVATIONS ON THE 2ND AND 3RD DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15·09	16·04	15·40	15·92	15·09	14·47	14·99	15·45	15·51	15·40	15·19	15·40
5·0	15·14	16·04	15·45	15·87					15·51	15·40	15·19	15·40
10·0	15·14	15·97	15·51	15·71					15·51	15·40	15·19	15·51
15·0	15·14	15·77	15·61	15·61					15·51	15·40	15·19	15·55
20·0	15·14	15·51	15·61	15·61					15·51	15·35	15·14	15·61
25·0	15·19	15·40	15·77	15·51					15·51	15·35	15·14	15·77
30·0	15·30	15·30	15·92	15·40	14·99	14·47	14·99	15·45	15·51	15·30	15·09	15·87
35·0	15·40	15·14	15·92	15·40					15·51	15·30	15·09	15·97
40·0	15·51	15·14	15·97	15·30					15·40	15·25	15·14	15·97
45·0	15·66	15·14	16·04	15·19					15·40	15·25	15·19	16·04
50·0	15·92	15·14	16·04	15·19					15·40	15·19	15·19	16·04
55·0	16·04	15·30	15·92	15·19					15·40	15·19	15·30	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings).*

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	18·130	18·260	18·690	18·840	18·190	17·200	16·840	17·100	17·140	17·000	17·400	17·870
7·0	18·120	18·370	18·840	18·800					17·140	17·000	17·460	17·900
12·0	18·120	18·370	18·860	18·760					17·140	17·000	17·510	17·860
17·0	18·120	18·400	18·650	18·740					17·200	17·000	17·560	17·860
22·0	18·100	18·490	18·800	18·710					17·200	17·040	17·560	17·830
27·0	18·070	18·600	18·840	18·600					17·200	17·070	17·600	17·750
32·0	18·060	18·710	18·670	18·570	17·600	17·200	17·200	17·180	17·200	17·070	17·670	17·600
37·0	18·060	18·760	18·610	18·490					17·200	17·140	17·710	17·490
42·0	18·060	18·800	18·500	18·460					17·200	17·240	17·790	17·490
47·0	18·070	18·900	18·600	18·370					17·140	17·260	17·840	17·400
52·0	18·090	18·940	18·710	18·340					17·100	17·340	17·840	17·400
57·0	18·170	18·690	18·800	18·260					17·060	17·340	17·840	17·360
Therm.	74·0	74·6	75·3	76·0	77·6	79·0	80·2	81·0	81·6	80·1	79·7	79·0

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·906	13·219	13·974	14·936	15·485	14·723	15·211	15·280	14·936	14·592	14·179	13·906	13·937
5·0	13 906	13·287	13·906	14·936	15·485					14·592	14·317	13·837	13·837
10·0	14·179	13·425	14·179	14·936	15·485					14·523	14·249	13 906	13·974
15·0	14·249	13·493	14·249	15·725	15·450					14·523	14·317	13·837	14·179
20·0	14·249	13·493	14·249	15·725	15·450					14·386	14·317	13·837	14·317
25·0	14·249	13·425	14·249	15·211	15·623					14·317	14·249	13·937	14·386
30·0	14·249	13·355	14·179	15·105	15·450	14·867	15·450	15·280	14·936	14·111	14·111	13·837	14·454
35·0	14·249	13·287	14·523	15·211	15·280					14·111	14·042	13·837	14·454
40·0	14·249	13·562	14·592	15·280	14·936					14·042	13·974	13·837	14·523
45·0	13·906	13·562	14·694	15·623	15·108					14·042	14·974	13·837	14·523
50·0	13·630	13·837	14·694	15·623	14·936					14·042	14·974	13·906	14·592
55·0	13·425	13·837	14·694	15·485	14·832					14·111	14·974	13·974	14·523

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·850	20·170	20·420	20·540	20·535	20·600	20·050	19·520	19·280	19·070	18·670	18·750	18·950
7·0	19·870	20·190	20·430	20·505	20·550					19·040	18·670	18·720	18·940
12·0	19·900	20·210	20·500	20·475	20·625					18·980	18·700	18·790	18·940
17·0	20·050	20·250	20·510	20·475	20·625					18·970	18·700	18·800	18·910
22·0	19·890	20·250	20·505	20·475	20·650					18·910	18·690	18·820	18·950
27·0	20·100	20·290	20·520	20·500	20·650					18·860	18·680	18·800	18·930
32·0	20·190	20·430	20·510	20·500	20·700	20·450	20·400	19·490	19·200	18·810	18·680	18·850	18·980
37·0	20·070	20·450	20·525	20·500	20·700					18·790	18·680	18·870	19 040
42·0	20·090	20·290	20·525	20·525	20·680					18·790	18·700	18·920	18·970
47·0	20·040	20·290	20·540	20·525	20·620					18·740	18·700	18·930	18·900
52·0	20·090	20·340	20·540	20·525	20·600					18·710	18·700	18·900	18·900
57·0	20·180	20·390	20·550	20·500	20·600					18·690	18·710	18·940	18·900
Therm.	78°0	78°0	78°2	81°0	82°2	83°3	84°6	85°5	85°2	87°0	85°0	84·2	83°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	2·35·50	1·25·00	1·43·80	1·28·15	0·40·00					-0·07·50	-0·04·00	-0·14 60	1·46·60
8·0	2·35·50	1·25·00	1·43·85	1·28·15	0·28·75					-0·07·50	-0·04·00	-0·14·60	2·05·50
13·0	2·31·00	1·25·00	1·43·85	1·19·80	0·09·80					-0·18·50	-0·04·00	-0·14·60	2·06·00
18·0	2·29·50	1·29·50	1·43·85	1·19·80	0·03·25					-0·34·50	-0·04·00	-0·10·00	2·06·10
23·0	2·28·00	1·32·50	1·43·80	1·19·80	-0·06·80					-0·34·50	-0·04·00	-0·02·00	2·06·10
28·0	2·14·00	1·32·50	1·43·85	1·33·90	-0·15·75	-0·07·60	0·01·10	1·10·00	0·14·00	-0·18·00	-0·00·50	0·15·50	2·06·10
33·0	2·02·00	1·32·50	1·43·85	1·33·90	-0·15·75					-0·18·00	-0·26·50	0·26·00	2·06·00
38·0	1·45·90	1·32·50	1·43·85	1·33·90	-0·25·25					-0·18·00	-0·16·00	0·48·00	2·06·00
43·0	1·27·50	1·32·50	1·11·50	1·04·50	-0·25·25					-0·18·00	-0·16·00	1·20·50	2·16·50
48·0	1·26·00	1·44·50	1·11·50	1·02·60	-0·31·75					-0·09·25	-0·15·00	1·23·50	2·17·50
53·0	1·21·50	1·44·50	1·28·55	1·44·10	-0·31·75					-0·09·25	-0·15·00	1·29·50	2·17·50
58·0	1·25·00	1·43·85	1·28·15	1·40·00	-0·31·75	0·20·15	1·01·00	0·38·50	0·07·50	-0·04·00	-0·14·60	1·44·60	2·17·90
Therm.	79°2	78°7	78°6	79°5	80°5	81°6	83°0	84°0	85°2	86°5	85°7	84°7	84°5

TERM HOUR OBSERVATIONS ON THE 5TH AND 6TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15·09	15·45	16·50	17·08	16·40	16·56	16·97	16·97	16·24	15·92	15·66	15·46
5·0	15·09	15·56	16·56	17·06					16·24	15·92	15·61	15·51
10·0	15·09	15·77	16·61	17·08					16·24	15·92	15·51	15·56
15·0	15·04	15·87	16·61	17·08					16·14	15·92	15·51	15·66
20·0	15·04	15·97	16·66	17·08					16·14	15·92	15·51	15·71
25·0	15·04	15·97	16·66	17·08					16·14	15·92	15·51	15·82
30·0	15·04	16·04	16·71	16·92	16·04	16·82	16·97	16·76	16·04	15·92	15·40	15·87
35·0	15·04	16·09	16·76	16·92					16·04	15·92	15·40	15·92
40·0	15·19	16·14	16·87	16·76					15·97	15·87	15·40	15·97
45·0	15·19	16·24	16·97	16·66					15·97	15·82	15·40	16·04
50·0	15·35	16·30	17·02	16·61					15·97	15·77	15·40	16·04
55·0	15·40	16·40	17·02	16·56					15·92	15·71	15·40	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	18·840	18·840	18·870	18·770	18·550	17·600	16·930	16·700	16·900	17·660	17·990	18·200
7·0	18·840	18·860	18·840	18·760					16·960	17·700	17·990	18·200
12·0	18·840	18·860	18·840	18·790					17·040	17·700	17·990	18·200
17·0	18·840	18·880	18·820	18·790					17·260	17·760	18·060	18·170
22·0	18·860	18·890	18·800	18·790					17·340	17·800	18·060	18·170
27·0	18·890	18·910	18·860	18·790					17·400	17·840	18·060	18·170
32·0	18·910	18·910	18·810	18·810	18·200	17·610	16·810	16·600	17·460	17·860	18·060	18·170
37·0	18·910	18·900	18·810	18·810					17·400	17·900	18·100	18·240
42·0	18·880	18·900	18·800	18·700					17·500	17·940	18·140	18·240
47·0	18·880	18·900	18·840	18·600					17·560	17·960	18·140	18·200
52·0	18·800	18·900	18·800	18·650					17·600	17·990	18·140	18·160
57·0	18·800	18·870	18·770	18·510					17·620	17·990	18·160	18·160
Therm.	74°0	74°1	75°4	77°0	79°0	80°5	81°0	83°2	83°7	83°0	81°0	80°0

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·150	13·355	14·042	14·936	15·176	15·623	16·136	16·240	16·721	15·623	14·660	13·906	13·906
5·0	13·219	13·355	14·279	14·936	15·004					15·623	14·660	13·906	13·974
10·0	13·287	13·562	14·317	14·936	15·280					15·553	14·454	13·974	14·179
15·0	13·287	13·355	14·454	15·108	15·280					15·211	14·249	14·042	14·386
20·0	13·219	13·906	14·523	15·108	15·280					14·936	14·249	13·974	14·523
25·0	13·081	14·042	14·523	14·936	15·280					14·936	14·111	13·837	14·592
30·0	13·013	13·700	14·728	14·936	15·280	15·623	16·240	16·996	16·309	14·936	14·042	13·768	14·592
35·0	12·944	13·837	14·867	14·936	15·280					14·936	14·042	13·768	14·660
40·0	13·013	13·700	14·867	14·832	15·280					14·936	13·974	13·768	14·728
45·0	13·150	13·768	14·798	14·832	15·794					14·867	13·974	13·837	14·867
50·0	13·081	13·906	14·798	14·936	15·760					14·867	13·906	13·906	14·936
55·0	13·150	13·906	14·728	14·936	15·623					14·867	13·906	13·974	14·936

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·700	20·240	20·500	20·850	21·100	20·540	20·410	19·800	19·050	18·260	17·850	17·900	18·100
7·0	19·650	20·270	20·470	20·850	21·100					18·260	17·840	17·900	18·160
12·0	19·590	20·250	20·550	20·900	20·000					18·230	17·820	17·940	18·230
17·0	19·670	20·270	20·615	20·975	20·990					18·150	17·870	17·950	18·340
22·0	19·840	20·240	20·640	20·975	20·900					18·100	17·800	17·930	18·460
27·0	19·900	20·290	20·590	21·050	20·780					18·000	17·800	17·940	18·530
32·0	19·970	20·360	20·600	21·050	20·640	20·500	20·235	19·560	18·600	17·910	17·800	17·950	18·610
37·0	20·004	20·430	20·590	21·070	20·625					17·900	17·760	17·940	18·520
42·0	20·030	20·495	20·620	21·100	20·625					17·870	17·750	17·930	18·440
47·0	20·000	20·550	20·620	21·100	20·625					17·850	17·790	17·980	18·390
52·0	20·090	20·490	20·700	21·125	20·575					17·850	17·800	18·000	18·440
57·0	20·170	20·500	20·790	21·100	20·550					17·850	17·810	18·100	18·390
Therm.	78°5	78°7	79°6	81°0	82°2	83°5	84°9	85°4	86°0	86°3	85°4	84°3	83°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·00·75	1·43·40	2·16·80	1·34·10	1·06·25					−0·42·00	−0·26·20	0·11·00	0·39·00
8·0	2.00.20	1·42·00	2·19·00	1·34·10	0·46·75					−0·37·00	−0·26·20	0·12·00	0·37·50
13·0	2·00·00	2·01·60	2·14·00	1·34·10	1·05·50					−0·47·50	−0·26·20	0·17·50	0·41·30
18·0	2.02.50	2·01·60	2·09·00	1·34·10	0·37·95					−0·47·50	−0·26·20	0·25·50	1·02·60
23·0	1.41·50	2·05·00	2·14·00	1·23·00	0·49·00					−0·47·50	−0·21·50	0·29·50	1·05·00
28·0	1·18.50	2·05·00	2·13·60	1·23·00	1·05·00	0·40·65	0·37·35	0·42·50	0.19·00	−0·47·50	−0·09·50	0·20·40	1·07·00
33·0	1·02.70	2·05·00	2·14·00	1·23·00	1·05·00					−0·31·00	−0·10·00	0·15·30	1·17·50
38·0	1·00·25	2·05·00	2·14·00	1·23·00	0·43·50					−0·31·00	−0·04·50	0·13·40	1·18·00
43·0	0·48·50	2·09·00	2·09·30	1·13·85	0·44·25					−0·31·00	0·03·00	0·17·30	1·30·50
48·0	1·09·60	2.15·50	2·09·30	1·13·85	0·48·75					−0·31·00	0·03·00	0·24·40	1·23·50
53·0	1·28·00	2·07·00	1·43·50	1·13·85	0·48·75					−0·31·00	0·07·00	0·36·50	1·26·40
58·0	1·43·40	2·16·80	1·34·10	1·13·85	0·48·80	1·06·35	0·34·50	0·32·00	0·42·00	−0·26·20	0·11·00	0·37·50	1·25·50
Therm.	80°4	79°3	78°7	79°4	80°5	81°5	82°5	84°0	85°0	85°5	83°5	84°0	83°8

TERM HOUR OBSERVATIONS ON THE 7TH AND 8TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. t.												
0·0	15·09	15·56	16·50	16·92	17·18	17·60	17·60	18·01	17·13	16·24	15·61	15·71
5·0	15·09	15·61	16·50	17·02					17·18	16·14	15·61	15·71
10·0	15·09	15·77	16·56	17·08					17·18	16·04	15·61	15·77
15·0	15·14	15·87	16·56	17·08					17·08	15·97	15·71	15·87
20·0	15·24	15·87	16·56	17·13					16·97	15·92	15·71	15·97
25·0	15·29	15·92	16·56	17·18					16·82	15·87	15·66	16·04
30·0	15·29	16·04	16·61	17·18	16·82	17·60	17·86	17·60	16·71	15·87	15·61	16·09
35·0	15·35	16·14	16·61	17·18					16·66	15·87	15·56	16·19
40·0	15·40	16·30	16·66	17·13					16·61	15·87	15·51	16·30
45·0	15·51	16·40	16·66	17·13					16·56	15·77	15·51	16·40
50·0	15·51	16·40	16·71	17·18					16·40	15·71	15·56	16·50
55·0	15·51	16·40	16·76	17·18					16·30	15·61	15·61	16·61

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. t.												
2·0	18·610	18·800	18·900	19·150	18·260	17·800	17·060	16·400	16·510	16·260	16·360	16·800
7·0	18·610	18·760	19·000	19·100					16·510	16·300	16·460	16·900
12·0	18·630	18·770	19·000	19·070					16·530	16·300	16·500	16·860
17·0	18·660	18·800	19·060	18·900					16·530	16·300	16·500	16·940
22·0	18·660	18·800	19·060	18·860					16·500	16·300	16·500	17·060
27·0	18·660	18·750	19·100	18·700					16·450	16·300	16·500	17·140
32·0	18·670	18·700	19·100	18·500	18·000	17·550	16·860	16·760	16·400	16·300	16·540	17·260
37·0	18·700	18·670	19·060	18·500					16·370	16·300	16·540	17·260
42·0	18·700	18·700	19·100	18·750					16·320	16·240	16·560	17·110
47·0	18·700	18·800	19·160	18·400					16·300	16·210	16·600	17·060
52·0	18·760	18·850	19·160	18·340					16·300	16·260	16·670	17·100
57·0	18·800	18·900	19·180	18·300					16·260	16·310	16·710	17·140
Therm.	74°0	74°2	76°4	76°6	78°4	80°0	81°7	82°0	82°0	82°0	80°0	79°0

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	12·806	13·219	14·111	14·762	15·038	14·523	14·420	14·660	14·660	14·454	14·219	13·974	14·219
5·0	12·738	13·493	14·042	14·867	14·867					14·592	14·249	13·974	14·179
10·0	13·043	13·562	13·974	14·936	14·728					14·592	14·454	14·042	14·179
15·0	13·219	13·493	14·042	15·004	14·723					14·592	14·386	14·042	14·249
20·0	13·219	13·630	13·974	14·660	14·723					14·557	14·317	14·042	14·454
25·0	13·150	13·562	14·179	14·694	14·723					14·592	14·219	13·974	14·592
30·0	13·150	13·768	14·249	14·694	14·626	14·523	14·386	14·283	14·660	14·592	14·179	13·974	14·592
35·0	13·425	13·906	14·249	15·108	14·523					14·660	14·042	14·042	14·660
40·0	13·493	13·700	14·351	15·004	14·592					14·523	14·042	14·111	14·660
45·0	13·562	13·974	14·351	15·004	14·592					14·523	13·974	13·974	14·592
50·0	13·493	13·906	14·523	15·004	14·523					14·249	14·042	13·974	14·592
55·0	13·213	13·906	14·660	15·004	14·317					14·454	13·974	14·042	14·317

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·100	20·450	20·675	20·550	20·730	20·600	20·165	19·870	19·650	19·300	19·100	19·400	19·300
7·0	20·090	20·470	20·650	20·560	20·740					19·260	19·050	19·390	19·300
12·0	20·025	20·500	20·670	20·560	20·740					19·190	19·040	19·400	19·260
17·0	20·050	20·510	20·650	20·550	20·800					19·170	19·010	19·400	19·240
22·0	20·125	20·550	20·645	20·625	20·800					19·170	19·040	19·400	19·200
27·0	20·200	20·550	20·630	20·620	20·800					19·160	19·120	19·440	19·210
32·0	20·250	20·570	20·620	20·620	20·800	20·475	19·920	19·850	19·545	19·140	19·140	19·460	19·290
37·0	20·300	20·580	20·610	20·620	20·775					19·130	19·130	19·440	19·220
42·0	20·200	20·630	20·625	20·620	20·723					19·160	19·240	19·460	19·230
47·0	20·150	20·660	20·645	20·620	20·700					19·150	19·320	19·400	19·200
52·0	20·220	20·680	20·600	20·720	20·700					19·110	19·340	19·400	19·180
57·0	20·200	20·700	20·560	20·700	20·700					19·080	19·440	19·360	19·100
Therm.	77°0	76°7	77°8	79°3	80°5	82°0	82°5	83°0	83°5	83°8	83°2	82°1	81°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·47·50	1·29·15	1·48·00	2·09·25	2·05·80					0·28·50	0·10·00	1·04·00	1·36·00
8·0	2·47·50	1·41·00	1·48·00	2·09·25	1·46·75					0·28·50	0·33·00	1·05·80	1·37·50
13·0	2·40·00	2·01·00	1·46·00	2·09·25	1·46·75					0·28·50	0·33·00	1·11·60	1·41·50
18·0	2·35·50	2·01·00	1·46·00	2·09·25	1·46·75					0·25·50	0·33·00	1·14·20	1·47·00
23·0	2·30·20	2·01·00	1·41·30	1·48·50	1·46·75					0·25·50	0·34·00	1·19·50	1·45·00
28·0	2·27·50	2·04·50	1·39·60	2·05·80	1·46·76		0·48·00	0·48·00	0·32·50	0·22·50	0·36·60	1·22·30	1·41·30
33·0	2·43·50	1·48·50	1·34·80	2·05·80	1·46·75					0·22·50	0·40·50	1·27·50	1·44·00
38·0	2·26·50	1·48·50	1·40·50	2·05·80	1·44·80	1·15·50				0·15·00	0·40·50	1·27·00	1·42·00
43·0	2·15·00	1·48·50	1·40·50	2·05·80	1·44·80					0·15·00	0·44·90	1·27·00	1·43·00
48·0	2·01·00	1·48·50	1·40·50	2·05·80	1·44·90					0·15·00	0·43·40	1·31·90	1·37·40
53·0	2·01·00	1·48·50	1·40·50	2·05·80	1·44·80					0·15·00	0·44·40	1·36·00	1·37·00
58·0	1·36·50	1·48·00	2·09·25	2·05·80	1·33·95	0·42·75	0·48·00	0·06·50	0·25·00	0·20·00	0·45·80	1·36·00	1·35·50
Therm.	79°0	78°0	77°4	77°8	76°2	79°5	80°5	81°6	82°3	82°6	82°8	81°7	81°5

TERM HOUR OBSERVATIONS ON THE 9TH AND 10TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15·09	15·51	16·14	16·61	16·14	16·04	16·04	16·04	16·04	16·04	15·77	15·61
5·0	15·14	15·61	16·30	16·61					16·04	16·04	15·77	15·61
10·0	15·14	15·51	16·40	16·50					16·04	16·04	15·77	15·66
15·0	15·14	15·51	16·50	16·40					16·04	15·97	15·77	15·71
20·0	15·19	15·56	16·50	16·30					16·04	15·97	15·71	15·77
25·0	15·19	15·56	16·50	16·19					16·04	15·92	15·71	15·77
30·0	15·30	15·61	16·50	16·14	16·04	16·04	15·77	16·19	16·04	15·92	15·71	15·77
35·0	15·30	15·71	16·56	16·14					16·04	15·87	15·66	15·92
40·0	15·30	15·77	16·56	16·34					16·04	15·82	15·61	15·92
45·0	15·35	15·87	16·56	16·14					16·04	15·82	15·61	15·97
50·0	15·35	15·97	16·56	16·14					16·04	15·82	15·61	16·04
55·0	15·40	16·04	16·61	16·14					16·04	15·77	15·61	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	18·800	18·840	18·650	18·640	18·600	17·700	17·400	17·400	17·240	17·060	17·470	17·700
7·0	18·860	18·790	18·650	18·670					17·160	17·060	17·490	17·700
12·0	18·860	18·790	18·640	18·700					17·100	17·060	17·490	17·640
17·0	18·800	18·700	18·640	18·740					17·070	17·000	17·490	17·600
22·0	18·800	18·700	18·670	18·740					17·040	17·000	17·490	17·540
27·0	18·790	18·700	18·670	18·800					17·000	17·100	17·500	17·540
32·0	18·790	18·730	18·670	18·800	18·300	17·490	17·500	17·330	17·000	17·140	17·570	17·560
37·0	18·790	18·730	18·640	18·740					17·000	17·140	17·640	17·560
42·0	18·790	18·700	18·640	18·700					17·060	17·190	17·700	17·560
47·0	18·810	18·700	18·640	18·670					17·100	17·360	17·700	17·500
52·0	18·810	18·700	18·640	18·640					17·100	17·360	17·700	17·476
57·0	18·840	18·700	18·640	18·640					17·100	17·450	17·700	17·470
Therm.	71°0	71°4	72°0	72°1	74°3	76°0	77°7	78°0	79°0	78°0	77°4	76°6

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0.0	13·630	12·533	13·493	13·425	13·253	13·630	13·784	14·728	15·348	14·592	14·660	14·592	14·592
5.0	13·493	12·533	13·562	13·425	13·253					14·592	14·660	14·592	14·592
10.0	13·562	12·468	13·493	13·426	13·219					14·523	14·728	14·728	14·660
15.0	13·425	12·738	13·562	13·425	13·287					14·454	14·867	14·728	14·728
20.0	13·493	13·150	13·425	13·355	13·425					14·454	14·867	14·592	14·660
25.0	13·219	13·150	13·562	13·355	12·468					14·454	14·798	14·660	14·728
30.0	13·219	13·425	13·630	13·389	13·389	13·664	14·179	15·211	15·074	14·523	14·867	14·592	14·798
35.0	13·150	13·425	13·562	13·355	13·562					14·523	14·798	14·592	14·660
40.0	13·013	13·355	13·630	13·425	13·630					14·592	14·867	14·592	14·728
45.0	12·601	13·219	13·630	13·425	13·630					14·592	14·592	14·592	14·592
50.0	12·533	13·493	13·562	13·459	13·630					14·592	14·660	14·592	14·867
55.0	12·533	13·493	13·562	13·459	13·630					14·592	14·660	14·592	15·004

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2.0	20·950	21·150	21·450	21·380	21·500	21·230	20·995	20·700	20·520	20·350	20·095	19·840	19·820
7.0	20·890	21·210	21·400	21·370	21·475					20·350	20·160	19·835	19·800
12.0	20·940	21·250	21·480	21·400	21·460					20·360	20·040	19·900	19·800
17.0	20·900	21·300	21·510	21·400	21·430					20·320	20·030	19·900	19·810
22.0	20·900	21·450	21·450	21·410	21·425					20·310	19·950	19·900	19·850
27.0	20·850	21·470	21·420	21·420	21·425					20·260	19·960	19·880	19·870
32.0	20·970	21·450	21·400	21·420	21·375	21·140	20·750	20·665	20·450	20·250	19·930	19·870	19·850
37.0	21·000	21·470	21·400	21·460	21·300					20·245	19·900	19·870	19·850
42.0	20·970	21·500	21·375	21·460	21·275					20·210	19·900	19·890	19·800
47.0	21·000	21·450	21·375	21·480	21·250					20·210	19·900	19·880	19·750
52.0	21·150	21·390	21·360	21·480	21·250					20·140	19·870	19·810	19·720
57.0	21·140	21·320	21·360	21·480	21·250					20·130	19·850	19·800	19·680
Therm.	71°8	72°5	74°6	76°5	78°5	80°0	81°0	81°9	82°0	82°0	81°4	80°5	79°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3.0	1·34·50	2·04·50	2·30·00	2·31·75	1·49·00					0·45·50	1·34·50	1·38·00	2·16·60
8.0	1·34·40	2·03·50	2·27·50	2·31·75	2·00·60					0·47·50	1·34·50	1·36·50	2·17·50
13.0	1·25·00	2·00·60	2·17·40	2·21·00	2·00·60					0·47·50	1·34·50	1·35·50	2·19·60
18.0	1·14·00	2·19·00	2·02·50	2·21·00	2·32·20					0·47·50	1·42·00	1·36·00	2·18·00
23.0	1·23·00	2·46·50	2·13·50	2·21·00	2·32·20					1·05·00	1·42·50	1·38·80	2·19·00
28.0	1·34·00	3·00·50	2·16·20	2·21·00	2·16·85	2·31·65	2·05·45	2·30·00	1·09·50	1·10·80	1·40·50	1·39·80	2·27·00
33.0	1·31·00	3·00·50	2·16·60	2·30·00	2·16·85					1·18·50	1·47·00	1·42·00	2·33·00
38.0	1·38·40	2·47·00	2·16·60	2·30·00	2·16·85					1·18·50	1·45·00	1·44·40	2·32·00
43.0	1·27·00	2·41·00	2·16·60	2·30·00	2·16·85					1·18·50	1·46·00	2·03·50	2·34·70
48.0	1·12·50	2·41·00	2·16·60	2·02·50	2·09·00					1·18·50	1·45·00	2·05·50	2·34·00
53.0	1·09·50	2·40·00	2·21·75	2·02·50	2·09·00					1·18·50	1·40·00	2·07·00	2·41·00
58.0	2·03·50	2·29·50	2·31·75	1·49·00	1·48·90	2·35·50	2·33·00	1·45·00	0·35·50	1·34·50	1·37·10	2·09·70	2·45·00
Therm.	76°7	75°0	74°4	75°5	76°8	77°5	78°8	79°8	80°5	81°3	81°3	80·5	80°7

TERM HOUR OBSERVATIONS ON THE 12TH AND 13TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14·40	14·99	15·09	14·93	14·99	15·25	16·04	16·56	16·04	15·92	16·14	16·04
5·0	14·40	14·99	15·09	14·93					16·04	15·97	16·09	16·04
10·0	14·47	14·99	15·09	14·88					16·04	16·04	16·09	16·04
15·0	14·52	14·99	15·09	14·83					15·97	16·04	16·09	16·04
20·0	14·62	14·99	15·09	14·78					15·92	16·04	16·09	16·04
25·0	14·73	14·99	15·09	14·78					15·92	16·04	16·09	16·09
30·0	14·83	15·04	15·09	14·93	15·09	15·51	16·56	16·30	15·92	16·09	16·09	16·14
35·0	14·93	15·04	15·09	14·88					15·92	16·09	16·09	16·14
40·0	14·99	15·09	15·04	14·88					15·92	16·09	16·09	16·19
45·0	14·99	15·14	15·04	14·93					15·92	16·09	16·09	16·24
50·0	14·99	15·14	15·04	14·99					15·92	16·09	16·04	16·24
55·0	14·99	15·09	14·99	14·99					15·92	16·14	16·04	16·30

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	18·400	18·440	18·500	18·640	18·300	17·600	18·050	18·100	18·110	18·000	17·750	17·640
7·0	18·400	18·490	18·510	18·640					18·140	17·960	17·700	17·640
12·0	18·470	18·530	18·560	18·600					18·140	17·900	17·700	17·680
17·0	18·500	18·600	18·580	18·560					18·140	17·900	17·700	17·600
22·0	18·560	18·600	18·560	18·560					18·140	17·860	17·700	17·600
27·0	18·600	18·560	18·600	18·440					18·140	17·860	17·700	17·640
32·0	18·600	18·500	18·600	18·400	17·990	17·800	18·090	18·130	18·140	17·840	17·700	17·640
37·0	18·600	18·500	18·600	18·400					18·140	17·800	17·700	17·640
42·0	18·600	18·510	18·600	18·400					18·100	17·750	17·700	17·600
47·0	18·540	18·510	18·600	18·360					18·070	17·760	17·640	17·560
52·0	18·470	18·510	18·600	18·380					18·070	17·760	17·640	17·500
57·0	18·400	18·500	18·640	18·300					18·060	17·750	17·640	17·440
Therm.	67°8	68°0	70°0	72°0	74°0	76°5	78°0	78°0	79°0	78°2	77°4	76°0

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13′498	12′433	13′630	14′488	14′008	14′076	14′213	14′523	13′906	13′837	14′711	14′592	14′592
5·0	13·562	12·433	13·768	14·488	14·008					13·837	14·179	14·728	14·528
10·0	13·287	12·188	13·493	14·488	14·042					13·837	14·249	14·728	14·860
15·0	12·944	12·433	13·562	14·488	14·042					13·871	14·249	14·867	14·592
20·0	12·876	12·394	13·768	14·523	13·906					13·871	14·454	14·867	14·692
25·0	12·876	12·050	13·906	14·454	13·906					13·768	14·454	14·930	14·660
30·0	12·533	12·394	14·179	14·454	13·562	14·317	14·420	14·249	13·906	13·768	14·386	14·728	14·728
35·0	12·326	12·433	14·249	14·454	13·562					13·837	14·454	14·592	14·728
40·0	12·256	12·601	14·249	14·249	14·111					13·906	14·523	14·592	14·728
45·0	12·258	12·944	14·317	14·179	14·111					13·906	14·592	14·592	14·798
50·0	12·256	12·876	14·523	14·111	14·076					13·906	14·592	14·528	14·798
55·0	12·256	13·219	14·523	14·111	14·076					13·974	14·592	14·592	14·798

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·550	20·750	21·110	21·285	21·320	21·110	21·050	20·520	20·400	20·470	20·190	20·080	19·950
7·0	20·570	20·780	21·130	21·285	21·325					20·440	20·200	20·100	19·900
12·0	20·550	20·840	21·100	21·200	21·325					20·400	20·200	20·100	19·940
17·0	20·635	20·850	21·150	21·220	21·325					20·360	20·160	20·090	19·950
22·0	20·710	20·900	21·160	21·250	21·290					20·340	20·120	20·100	19·890
27·0	20·750	20·970	21·170	21·290	21·249					20·380	20·110	20·130	19·900
32·0	20·800	21·040	21·150	21 300	21·240	21·125	20·750	20·400	20·480	20·300	20·100	20·070	19·890
37·0	20·850	21·050	21·200	21·300	21·250					20·300	20·080	20·100	19·900
42·0	20·780	21·100	21·220	21·300	21·200					20·300	20·080	20·050	19·900
47·0	20·800	21·130	21·220	21·325	21·200					20·250	20·090	20·060	19·810
52·0	20·740	21·190	21·220	21·380	21·160					20·300	20·090	20·050	19·810
57·0	20·760	21·100	21·200	21·310	21·140					20·180	20·070	20·040	19·800
Therm.	75°6	75°1	76°2	76°0	79°5	80°8	81°4	82°0	82°8	83°2	83°0	81°7	80°6

VERTICAL-FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	2·12·50	2·21·50	3·32·50	3·18·50	3·05·10					1·38·00	2·06·00	2·28·00	3·14·90
8·0	2·13·00	2·20·00	3·31·90	3·16·50	3·14·45					1·38·00	2·06·00	2·30·50	3·22·30
13·0	2·17·50	2·32·50	3·33·90	3·06·25	3·14·45					1·38·00	2·06·00	2·31·70	3·19·00
18·0	2·14·90	2·40·00	3·33·90	3·06·25	3·14·45					1·36·00	2·06·00	2·30·50	3·15·90
23·0	2·08·50	2·43·00	3·32·50	3·06·25	3·22·10					1·38·00	2·08·50	2·37·80	3·19·40
28·0	2·10·50	2·45·20	3·29·00	2·48·50	3·22·10	3·48·50	3·31·15	2·33·50	1·38·00	1·33·50	2·18·50	2·39·55	3·18·50
33·0	2·12·90	3·03 60	3·29·00	2·48·50	3·22·10					1·33·50	2·18·50	2·42·90	3·19·40
38·0	2·19·30	3·14·50	3·29·00	2·48·50	3·00·30					1·40·50	2·20·00	3·00·60	3·19·50
43·0	2·25·50	3·23·40	3·18·50	2·48·50	3·00·30					1·40·50	2·19·50	2·47·50	3·19·00
48·0	2·12·00	3·20·50	3·18·50	2·48·50	3·00·30					1·49·00	2·21·00	3·03·50	3·25·00
53·0	2·12·00	3·26·50	3·18·50	2·48·50	3·00·30					1·49·00	2·21·00	3·09·00	3·25·00
58·0	2·19·00	3·30·70	3·18·50	3·05·10	3·34·35	3·31·15	2·03·95	2·10·20	1·38·00	1·06·00	2·23·00	3·12·50	3·22·50
Therm.	78°3	76°5	76°3	76°8	77°5	78°5	79°4	80°5	81°4	82°4	82°5	81°5	80°9

TERM HOUR OBSERVATIONS ON THE 14TH AND 15TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	14·40	14·88	16·09	15·92	15·66	15·77	16·04	15·51	15·30	15·51	15·97	15·97
5·0	14·40	14·99	16·14	15·87					15·30	15·56	15·97	16·04
10·0	14·40	15·14	16·14	15·77					15·30	15·66	15·97	16·04
15·0	14·40	15·30	16·19	15·71					15·30	15·71	15·97	16·04
20·0	14·40	15·40	16·19	15·71					15·30	15·77	15·97	16·04
25·0	14·40	15·51	16·19	15·66					15·30	15·82	15·97	16·04
30·0	14·40	15·56	16·19	15·61	15·92	15·77	15·51	15·51	15·30	15·87	15·97	16·04
35·0	14·47	15·66	16·19	15·56					15·30	15·92	15·97	16·04
40·0	14·52	15·77	16·14	15·56					15·20	15·92	15·97	16·04
45·0	14·62	15·92	16·09	15·56					15·35	15·97	15·97	16·04
50·0	14·67	15·97	16·04	15·56					15·40	15·97	15·97	16·04
55·0	14·78	16·04	15·97	15·61					15·45	15·97	15·97	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	18·490	18·540	18·570	18·680	18·440	18·450	17·900	17·900	16·040	17·860	18·130	17·840
7·0	18·490	18·540	18·570	18·680					16·040	17·900	18·130	17·900
12·0	18·490	18·500	18·570	18·680					16·000	17·900	18·130	17·740
17·0	18·490	18·560	18·600	18·660					18·000	17·960	18·100	17·700
22·0	18·490	18·470	18·640	18·660					18·000	17·960	18·100	17·660
27·0	18·540	18·470	18·700	18 620					18·040	17·960	18·060	17·600
32·0	18·570	18·470	18·700	18·600	18·600	18·100	17·750	18·080	18·040	18·000	18·060	17·600
37·0	18·570	18·470	18·740	18·560					18·000	18·000	18·000	17·600
42·0	18·570	18·510	18·760	18·470					18·000	19·060	17·940	17·600
47·0	18·570	18·560	18·760	18·410					18·000	18·100	17·900	17·540
52·0	18·570	18·600	18·700	18·410					17·960	18·130	17·900	17·540
57·0	18·540	18·570	18·700	18·440					17·900	18·130	17·860	17·500
Therm.	70°0	70°3	71°9	73°0	75°0	76°0	77°9	78°0	79°4	79°6	75°0	77°0

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·287	13·219	13·493	13·906	14·249	15·176	15·176	15·142	14·592	13·493	14·798	13·355	14·317
5·0	13·287	13·562	13·425	13·906	14·249					13·493	14·798	13·493	13·906
10·0	13·081	13·425	13·562	13·906	14·249					13·355	14·931	13·562	14·179
15·0	12·876	13·287	13·837	14·076	14·523					13·219	15·211	13·630	14·179
20·0	12·944	13·150	13·906	14·249	14·420					13·219	15·280	13·630	14·317
25·0	12·638	13·150	13·837	14·249	14·420					13·219	14·867	13·425	14·249
30·0	12·601	13·013	13·837	14·249	14·867	15·485	15·074	15·280	13·974	13·081	14·728	13·493	14·592
35·0	13·013	12·944	13·399	14·249	15·142					13·493	14·454	13·906	14·867
40·0	13·336	12·944	14·179	14·317	15·108					13·355	14·219	13·974	14·936
45·0	13·493	13·219	14·076	14·317	15·142					13·493	13·906	13·974	14·936
50·0	13·150	13·493	13·837	14·249	15·142					13·768	13·768	14·042	14·660
55·0	13·013	13·562	13·906	14·249	15·142					14·592	13·355	14·179	14·592

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	21·050	21·290	21·520	21·425	21·500	21·575	21·145	20·380	19·600	19·320	20·840	20·120	19·700
7·0	21·100	21·250	21·550	21·400	21·490					19·310	20·650	20·230	20·650
12·0	21·120	21·290	21·540	21·400	21·505					19·410	20·320	20·200	21·050
17·0	21·100	21·350	21·530	21·450	21·510					20·740	20·300	20·240	21·190
22·0	21·230	21·400	21·490	21·475	21·540					20·560	19·850	20·130	20·900
27·0	21·250	21·425	21·460	21·490	21·460					20·750	19·950	20·110	20·875
32·0	21·290	21·430	21·460	21·490	21·480	21·375	20·920	19·790	19·350	20·830	19·840	20·100	20·590
37·0	21·360	21·450	21·460	21·480	21·485					20·550	20·000	20·040	20·400
42·0	21·270	21·460	21·465	21·460	21·540					20·870	19·900	19·900	20·260
47·0	21·250	21·500	21·480	21·460	21·530					20·950	20·080	19·910	20·190
52·0	21·235	21·530	21·490	21·450	21·530					20·900	20·070	19·600	20·140
57·0	21·200	21·500	21·465	21·450	21·530					20·770	20·250	19·740	20·600
Therm.	74°0	74°0	75°0	76°1	77°2	78°5	80°0	81°0	81°5	81°9	81°7	80°5	79°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	-0·05·00	0·20·50	1·05·80	1·06·50	0·23·75					-1·39·00	0·27·00	-0·27·50	1·09·50
8·0	-0·04·00	0·18·00	1·05·80	1·41·20	0·23·75					-1·39·00	0·39·00	-0·02·50	1·02·00
13·0	-0·02·00	0·21·50	1·05·80	1·41·20	0·23·75					-1·39·00	1·38·00	0·06·50	0·86·50
18·0	-0·03·50	0·19·50	1·07·50	1·04·80	0·23·75					-2·27·00	0·48·00	0·14·00	0·45·50
23·0	0·09·70	0·21·50	1·12·00	0·45·15	0·29·60					-1·42·50	0·48·00	0·11·00	1·18·00
28·0	0·21·50	0·30·50	1·12·00	0·45·15	0·35·50	0·12·75	-1·00·65	-1·05·00	-2·13·50	-1·32·00	0·20·00	0·11·00	1·31·50
33·0	0·24·50	0·42·50	1·04·00	0·45·15	0·35·50					-1·32·00	0·12·50	0·26·00	1·49·50
38·0	0·29·70	1·04·50	1·04·00	0·45·15	0·35·50					-0·39·00	-0·00·50	0·41·50	2·04·00
43·0	0·45·50	1·13·50	0·04·00	0·45·15	0·29·85					-0·39·00	-0·15·50	1·03·00	1·33·50
48·0	0·41·00	1·11·00	0·44·75	0·38·40	0·29·85					-0·11·00	-0·28·50	1·05·00	1·29·50
53·0	0·25·00	1·10·50	1·02·00	0·38·40	0·29·85					0·16·50	-0·28·50	1·05·00	1·23·50
58·0	0·21·00	1·05·80	1·02·00	0·38·20	0·29·90	-0·30·10	-1·12·00	-2·06·50	-1·39·00	0·27·00	-0·27·50	1·10·50	1·35·80
Therm.	76°7	75°0	74°6	75°0	76°3	76°5	77°8	79°6	80°3	80°3	81°2	80°4	80°0

TERM HOUR OBSERVATIONS ON THE 16TH AND 17TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER (in arc).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0:0	14·88	14·93	15·25	15·71	16·50	16·56	16·56	16·04	14·93	15·19	15·09	15·61
5:0	14·88	14·99	15·30	15·71					14·93	15·40	14·99	15·66
10:0	14·88	14·99	15·35	15·66					14·88	15·61	15·04	15·71
15:0	14·88	14·99	15·40	15·66					14·78	15·92	15·09	15·77
20:0	14·83	14·99	15·51	15·77					14·73	16·14	15·09	15·77
25:0	14·78	15·04	15·61	15·92					14·67	16·14	15·04	15·77
30:0	14·78	15·04	15·66	16·01	16·92	16·56	16·56	15·51	14·57	16·14	15·04	15·82
35:0	14·83	15·04	15·71	16·14					14·57	16·09	15·09	15·97
40:0	14·88	15·09	15·77	16·24					14·62	15·97	15·19	16·19
45:0	14·89	15·09	15·77	16·30					14·67	15·77	15·30	16·19
50:0	14·93	15·14	15·77	16·40					14·83	15·51	15·45	16·14
55:0	14·93	15·19	15·71	16·45					14·99	15·30	15·51	16·04

SMALL HORIZONTAL FORCE (in Scale Readings).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2:0	18·660	18·730	18·600	18·400	18·340	17·575	16·770	16·100	16·140	17·900	17·260	16·800
7:0	18·660	18·760	18·640	18·400					16·110	17·900	17·400	17·330
12:0	18·690	18·760	18·470	18·440					16·200	17·660	17·400	18·100
17:0	18·690	18·770	18·470	18·440					17·820	17·440	17·460	18·600
22:0	18·700	18·740	18·500	18·440					17·640	16·960	17·400	18·500
27:0	18·700	18·700	18·500	18·400					17·840	17·000	17·300	18·300
32:0	18·640	18·700	18·500	18·400	17·975	17·200	16·250	16·040	18·000	17·000	17·240	17·970
37:0	18·640	18·700	18·500	18·340					17·710	17·100	17·160	17·700
42:0	18·060	18·660	18·450	15·330					17·930	17·000	17·040	17·500
47:0	18·640	18·660	18·400	18·400					18·140	17·200	16·940	17·460
52:0	18·670	18·640	18·380	18·400					18·070	17·300	16·900	17·400
57:0	18·700	18·600	18·380	18·360					17·900	17·360	16·810	18·000
Diurn.	6·8	6·9	6·9	7·0	7·0	7·0	7·9	7·8	7·7	7·5	7·4	7·5

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	10·814	11·088	13·219	16·653	19·914	19·056	17·098	20·635	22·215	21·000	23·520	18·987	18·713
5·0	9·372	10·744	13·355	16·653	19·400					23·793	23·656	19·331	18·849
10·0	9·098	11·545	13·906	16·926	19·639					22·901	23·388	18·231	18·713
15·0	9·747	12·188	14·867	17·389	19·468					22·969	24·617	18·025	20·773
20·0	9·785	11·478	15·416	17·399	19·948					22·833	25·581	18·949	22·078
25·0	9·441	11·501	15·691	18·025	19·948					22·901	25·581	18·949	22·558
30·0	9·303	12·463	15·558	15·369	19·943	16·515	18·162	20·704	23·863	23·107	25·236	18·713	23·520
35·0	9·166	13·425	15·725	18·025	19·830					22·490	24·519	18·507	24·549
40·0	9·029	13·562	16·789	18·093	19·400					21·911	23·039	18·093	24·549
45·0	9·303	13·493	16·721	18·713	18·883					21·733	21·459	17·956	24·000
50·0	9·098	13·700	16·755	19·400	18·541					21·527	21·116	18·025	23·176
55·0	9·747	13·768	16·926	19·380	18·937					22·833	20·360	18·025	22·490

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·250	16·550	17·390	17·865	17·150	17·350	17·350	15·130	14·090	12·400	12·500	11·050	10·600
7·0	17·200	16·400	17·200	17·600	17·140					12·270	12·400	10·980	10·540
12·0	17·120	16·550	17·040	17·240	17·150					12·200	12·200	10·700	10·400
17·0	17·200	16·515	17·110	17·260	17·050					12·190	12·000	10·435	10·550
22·0	17·290	16·795	17·250	17·410	16·950					12·050	11·775	10·180	10·780
27·0	17·420	17·065	17·310	17·290	17·150					11·900	11·620	10·340	11·500
32·0	17·345	17·150	17·560	17·500	17·150	17·075	16·000	15·000	12·950	12·060	11·140	10·290	11·600
37·0	16·970	17·050	17·300	17·460	16·825					11·800	10·940	10·405	11·700
42·0	16·810	17·090	17·400	17·400	16·825					11·662	10·909	10·600	11·780
47·0	16·900	16·760	16·960	17·375	16·975					11·330	11·150	10·650	11·750
52·0	16·940	16·670	17·190	17·250	16·900					12·050	11·100	10·780	11·500
57·0	16·950	16·950	17·900	17·150	17·250					12·625	11·150	10·700	11·100
Therm.	78°4	76°0	77°6	79°0	80°4	81°5	82°0	82°4	82°8	83°0	83°0	82°0	81°2

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	-2·14·50	4·05·50	3·45·40	3·13·20	5·18·80					1·28·00	3·06·00	-1·29·50	1·42·00
8·0	-1·43·50	4·00·00	4·49·00	3·13·20	4·39·25					1·11·00	3·06·00	-1·40·60	1·49·00
13·0	-1·38·00	3·03·85	5·05·00	5·36·90	4·39·25					1·08·50	3·06·00	-0·48·50	2·41·50
18·0	-1·30·50	3·27·40	5·15·50	5·03·50	5·14·25					1·21·00	3·49·00	-0·31·00	2·32·00
23·0	-1·09·50	2·08·00	5·00·50	4·07·70	4·49·85					1·27·50	4·19·50	0·17·50	3·28·00
28·0	-1·00·00	2·10·00	4·38·00	4·19·00	4·28·50	0·41·00	0·14·00	-0·39·00	1·31·00	2·05·50	3·03·00	0·29·50	3·21·50
33·0	-0·04·50	3·37·50	3·47·00	4·39·00	4·28·50					1·22·75	2·48·50	0·04·50	4·12·50
38·0	0·13·50	4·22·00	5·17·00	4·20·80	4·14·60					1·22·75	1·25·00	-0·12·00	4·27·50
43·0	0·20·50	3·27·50	6·07·55	5·00·75	3·45·85					1·22·75	0·04·00	-0·07·00	3·25·00
48·0	0·15·50	4·29·50	5·18·10	5·17·25	2·47·00					1·22·75	-0·28·00	0·06·50	2·48·50
53·0	0·12·50	4·21·50	5·18·10	5·43·25	2·47·00					1·22·75	-0·15·00	0·30·90	2·27·50
58·0	2·03·00	3·37·00	4·01·25	5·18·80	3·04·30	0·23·40	1·15·00	0·28·65	1·38·00	2·28·50	-1·19·50	1·06·00	2·04·40
Therm.	78°2	77°6	77°0	77°6	78°3	79°3	80°0	80°5	81°0	81°8	82°0	81°5	81°8

TERM HOUR OBSERVATIONS ON THE 19TH AND 20TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	12·11	14·99	18·13	21·32	20·37	18·65	21·79	24·08	25·45	24·71	23·36	19·63
5·0	13·16	15·40	17·70	20·74					24·93	24·93	19·70	20·42
10·0	13·42	16·09	19·06	21·27					24·19	25·03	19·63	21·32
15·0	13·42	16·14	18·75	21·47					24·08	25·81	19·63	21·89
20·0	13·42	16·97	19·70	21·58					24·08	26·50	20·11	23·41
25·0	13·90	16·97	19·17	21·79					24·08	26·86	20·16	23·88
30·0	13·94	17·28	19·70	21·63	17·08	19·96	21·89	25·45	24·40	26·50	20·06	24·40
35·0	14·99	17·08	19·35	21·32					23·88	25·76	19·80	25·76
40·0	15·19	18·65	19·75	20·94					23·36	24·40	19·63	25·55
45·0	14·99	18·44	20·48	20·32					23·14	22·88	19·32	25·45
50·0	14·99	18·18	21·27	20·22					22·83	22·31	19·27	24·60
55·0	15·09	18·23	21·37	20·27					23·88	21·99	19·22	23·88

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	13·280	14·100	14·400	13·690	13·870	13·700	11·460	10·550	8·900	8·970	7·600	7·200
7·0	12·900	13·910	14·710	13·660					9·760	8·970	7·400	6·710
12·0	13·040	13·640	13·800	13·630					8·500	8·800	7·100	6·740
17·0	12·970	13·700	13·350	13·460					8·470	8·540	6·900	7·110
22·0	13·110	13·880	14·000	13·370					8·400	8·300	6·710	7·600
27·0	13·740	14·000	13·940	13·370					8·260	8·240	6·770	7·900
32·0	13·970	14·210	13·850	13·400	13·700	12·200	11·600	9·200	8·370	7·700	6·800	8·100
37·0	13·800	14·100	14·100	13·400					8·200	7·200	6·930	8·270
42·0	13·890	13·580	13·960	13·320					8·170	7·440	7·040	8·360
47·0	13·470	13·600	13·900	13·380					7·870	7·490	7·140	8·400
52·0	13·370	13·770	13·700	13·400					8·400	7·490	7·240	8·160
57·0	13·500	13·810	13·790	13·810					8·900	7·500	7·210	7·860
Therm.	72°0	72°2	73°2	74°6	76°0	77°2	78°0	78°2	78°4	79°0	78°9	77°9

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
0·0	15′553	15′348	15′280	15′760	14′867	14′867	14′592	15′211	15′211	15′382	14′798	14′317	14′660
5·0	15·416	15·416	15·280	15·760	14·936					15·382	14·728	14·386	14·660
10·0	15·623	15·416	15·485	15·623	14·867					15·310	14·694	14·523	14·660
15·0	15·623	14·936	15·348	15·485	14·867					15·280	14·660	14·523	14·798
20·0	15·623	15·004	15·485	15·348	14·832					15·211	14·592	14·523	14·867
25·0	15·623	14·936	15·623	15·348	14·798					15·280	14·592	14·592	14·867
30·0	15·623	14·936	15·416	15·348	14·798	14·523	14·936	15·280	15·348	15·211	14·523	14·592	14·728
35·0	15·553	15·211	15·416	14·936	14·867					15·142	14·523	14·523	14·936
40·0	15·485	14·798	15·553	14·936	14·867					15·004	14·523	14·592	15·142
45·0	15·416	14·936	15·553	14·936	14·867					15·004	14·317	14·592	15·280
50·0	15·416	15·074	15·623	14·523	14·867					14·936	14·386	14·660	15·485
55·0	15·348	15·211	15·623	14·523	14·867					14·867	14·386	14·660	15·553

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.													
2·0	17·760	17·800	18·260	18·550	18·725	18·750	18·750	18·300	18·000	17·940	18·020	18·100	18·200
7·0	17·720	17·840	18·290	18·560	18·740					17·940	18·020	18·170	18·150
12·0	17·700	17·810	18·340	18·625	18·800					17·960	18·080	18·200	18·060
17·0	17·730	17·810	18·395	18·600	18·775					17·970	18·010	18·210	18·020
22·0	17·740	17·890	18·420	18·670	18·775					17·980	18·020	18·230	17·970
27·0	17·700	18·000	18·450	18·690	18·775					18·050	18·010	18·260	17·910
32·0	17·790	18·060	18·450	18·700	18·775	18·725	18·580	18·190	17·850	18·100	18·040	18·250	17·890
37·0	17·850	18·060	18·450	18·710	18·800					18·150	18·050	18·250	17·760
42·0	17·900	18·060	18·540	18·740	18·785					18·000	18·090	18·250	17·710
47·0	17·900	18·085	18·600	18·730	18·785					18·000	18·080	18·250	17·680
52·0	17·890	18·150	18·570	18·730	18·785					18·000	18·090	18·245	17·600
57·0	17·850	18·230	18·550	18·715	18·785					18·100	18·100	18·250	17·500
Therm.	78°0	77°2	77°8	78°5	80°0	81°5	82°0	82°0	82°0	82°0	81°5	80°6	80°0

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. s.													
3·0	2·47·50	1·20·50	0·48·00	0·07·40	−1·02·25					1·17·50	1·23·00	1·35·50	1·32·30
8·0	3.20.00	1.17.50	0.49.00	0.07.40	−1·02·25					1·17·50	1·30·50	1·31·50	1·30·50
13·0	3·18·50	1·03·00	1·01·00	−0·07.15	−1·02·25					1·17·50	1·30·50	1·27·50	1·29·90
18·0	3.06.00	1·03·00	1·01·00	−0·07·15	−1·02·25					1·17·50	1·30·50	1·28·00	1·29·90
23·0	3.00·50	1.06·50	0·45·00	−0·29·80	−1·02·25					1·17·50	1·35·00	1·37·00	1·29·00
28·0	2·44.50	1·05·00	1·02·50	−0·29·80	−1·02·25	−0·41·50	0·36·75	1·15·50	1·41·50	1·17·50	1·35·00	1·40·00	1·22·00
33·0	2·25·50	1·05·50	1·00·00	−0·29·80	−1·02·25					1·17·50	1·35·00	1·40·00	1·17·80
38·0	2·03·00	1·05·50	1·00·00	−0·46·20	−1·02·25					1·17·50	1·35·00	1·39·50	1·17·80
43·0	1·41·50	1·06·00	0·27·55	−0·46·20	−1·02·25					1·17·50	1·33·00	1·39·50	1·16·00
48·0	1·32·00	1·06·00	0·27·55	−1·02·25	−1·02·25					1·17·50	1·30·50	1·39·60	1·25·40
53·0	1·36·50	1·06·00	0·27·55	−1·02·25	−1·02·25					1·23·00	1·33·50	1·35·70	1·24·00
58·0	1·26·50	0·48·00	0·07·40	−1·02·25	−1·02·25	0·07·50	1·15·50	1·17·00	1·17·50	1·23·00	1·35·50	1·32·30	1·18·50
Therm.	79°5	78°5	78°0	78°2	78°5	79°5	80°0	80°5	80°7	81°3	81°3	80°5	80°3

TERM HOUR OBSERVATIONS ON THE 21ST AND 22ND DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER (in arc).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	16'61	16'56	16'97	16'04	16'09	16'04	15'25*	15'25*	16'56	16'09	15'77	16'04
5·0	16·61	16·56	17·02	16·04					16·61	16·04	15·77	16·04
10·0	16·61	16·56	16·97	16·04					16·61	16·04	15·87	16·04
15·0	16·61	16·56	16·92	16·04					16·61	15·97	15·92	16·04
20·0	16·61	16·56	16·76	16·04					16·56	15·97	15·92	16·04
25·0	16·56	16·61	16·61	16·04					16·56	15·92	15·92	16·04
30·0	16·56	16·66	16·56	16·04	14·47*	16·04	16·56	16·61	16·50	15·87	15·97	16·04
35·0	16·56	16·71	16·45	16·04					16·40	15·77	15·97	16·14
40·0	16·56	16·76	16·40	16·04					16·35	15·71	16·04	16·30
45·0	16·56	16·76	16·30	16·04					16·30	15·71	16·04	16·50
50·0	16·56	16·82	16·14	16·09					16·19	15·71	16·04	16·61
55·0	16·56	16·87	16·09	16·09					16·09	15·71	16·04	16·71

SMALL HORIZONTAL FORCE (in Scale Readings).

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	15·400	15·600	15·600	15·700	15·800	16·050	15·800	15·400	15·600	15·540	15·600	15·640
7·0	15·400	15·600	15·590	15·700					15·500	15·560	15·640	15·640
12·0	15·460	15·600	15·610	15·700					15·500	15·560	15·690	15·640
17·0	15·470	15·600	15·610	15·740					15·500	15·600	15·780	15·600
22·0	15·470	15·610	15·690	15·740					15·500	15·600	15·730	15·560
27·0	15·500	15·610	15·700	15·740					15·500	15·610	15·760	15·500
32·0	15·490	15·600	15·740	15·740	16·025	15·900	15·600	15·400	15·500	15·640	15·760	15·470
37·0	15·490	15·540	15·740	15·770					15·540	15·640	15·760	15·400
42·0	15·500	15·600	15·740	15·770					15·540	15·640	15·760	15·340
47·0	15·510	15·660	15·740	15·770					15·540	15·640	15·760	15·260
52·0	15·530	15·640	15·710	15·790					15·540	15·640	15·760	15·170
57·0	15·570	15·640	15·710	15·800					15·540	15·600	15·700	15·090
Therm.	78°0	78°4	74°0	76°3	76°4	76°5	77°8	77°9	78°0	77°4	76°3	76°0

* Observations not correctly taken.

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·728	13·768	13·768	14·072	14·179	13·219	14·111	15·280	15·960	16·378	15·691	15·004	14·867
5·0	14·728	13·768	13·562	14·179	14·042					16·378	15·623	14·936	14·867
10·0	14·592	13·562	13·493	14·179	14·042					16·209	15·623	14·798	14·936
15·0	14·523	13·493	13·630	14·249	14·042					16·209	15·553	14·798	14·936
20·0	14·454	13·287	13·562	14·249	13·871					16·209	15·485	14·798	14·970
25·0	14·386	13·493	13·630	14·317	13·900					16·209	15·416	14·728	14·970
30·0	14·249	13·700	13·700	14·420	13·768	13·630	14·936	15·623	15·828	16·172	15·348	14·798	14·936
35·0	14·111	13·493	13·802	14·420	13·734					16·102	15·553	14·867	15·004
40·0	13·906	13·425	13·802	14·420	13·630					15·966	15·348	14·867	15·004
45·0	13·837	13·700	13·802	14·420	13·493					15·897	15·211	14·867	14·936
50·0	13·768	13·768	13·871	14·317	13·389					15·828	15·211	14·867	14·901
55·0	13·630	13·768	13·871	14·317	13·355					15·966	15·211	14·867	14·867

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·240	19·350	19·900	20·110	20·365	20·490	20·170	19·660	18·990	18·460	18·450	18·700	18·900
7·0	19·250	19·380	19·950	20·120	20·380					18·480	18·430	18·700	18·920
12·0	19·240	19·430	19·955	20·115	20·400					18·460	18·445	18·750	18·900
17·0	19·180	19·550	19·960	20·100	20·400					18·450	18·440	18·780	18·930
22·0	19·220	19·590	19·985	20·120	20·425					18·460	18·420	18·780	18·920
27·0	19·200	19·680	19·990	20·120	20·410					18·440	18·420	18·840	18·890
32·0	19·285	19·800	20·000	20·140	20·430	20·260	19·950	19·275	18·660	18·425	18·420	18·900	18·880
37·0	19·360	19·840	20·025	20·145	20·435					18·410	18·440	18·900	18·890
42·0	19·395	19·870	20·050	20·190	20·450					18·435	18·540	18·920	18·910
47·0	19·460	19·860	20·090	20·210	20·430					18·430	18·610	18·895	18·900
52·0	19·500	19·910	20·090	20·260	20·420					18·430	18·610	18·900	18·920
57·0	19·450	19·890	20·100	20·300	20·490					18·480	18·620	18·900	18·920
Therm.	77°0	76°8	77°6	79°3	81°0	81°6	82°0	82°0	82°4	82°6	82°6	81°7	80°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·07·50	0·17·00	0·49·00	0·44·65	-0·24·30					1·22·00	0·29·00	0·04·00	1·33·00
8·0	1·05·00	0·15·00	0·48·50	0·44·65	-0·24·30					1·17·00	0·24·50	0·04·00	1·31·00
13·0	0·41·50	0·18·50	0·49·00	0·28·25	-0·42·45					1·10·00	0·17·50	0·12·00	1·31·00
18·0	0·29·00	0·25·50	1·00·50	0·28·25	-0·42·45					1·10·00	0·17·50	0·16·00	1·32·00
23·0	-0·05·50	0·25·80	1·00·50	0·18·65	-0·42·45					1·10·00	0·17·50	0·16·00	1·30·00
28·0	-0·01·00	0·32·50	0·49·50	0·18·65	-0·47·35	-0·19·20	1·29·25	2·00·00	1·23·00	1·10·00	0·08·50	0·26·50	1·27·00
33·0	0·02·50	0·30·00	0·49·50	0·01·15	-0·47·35					0·45·00	0·08·50	0·31·50	1·27·00
38·0	-0·02·50	0·34·50	0·49·50	0·01·15	-0·47·35					0·45·00	0·10·50	0·39·50	1·26·50
43·0	-0·04·00	1·00·50	0·49·50	0·01·15	-1·39·10					0·38·50	0·13·00	1·04·50	1·21·00
48·0	-0·04·00	0·46·50	0·49·50	-0·13·75	-1·39·10					0·38·50	0·17·00	1·12·00	1·20·00
53·0	-0·05·00	0·45·50	0·49·50	-0·13·75	-1·39·10					0·38·50	0·17·00	1·13·50	1·14·50
58·0	0·17·00	0·01·00	0·44·65	-0·24·30	-1·25·05	0·22·40	1·38·00	1·40·50	1·22·00	0·29·00	0·05·50	1·31·00	1·12·00
Therm.	79°6	78°8	77°7	78°0	79°0	79°8	80°0	80°5	81°4	81°6	81°8	81°6	81°7

TERM HOUR OBSERVATIONS ON THE 23RD AND 24TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15'40	14'88	15'14	15'40	14'20	14'99	16'56	17'03	17'53	16'92	16'40	15'92
5·0	15·30	14·88	15·19	15·35					17·53	16·76	16·30	15·92
10·0	15·19	14·93	15·30	15·30					17·53	16·66	16·19	15·97
15·0	16·04	14·88	15·40	15·14					17·48	16·61	16·09	16·04
20·0	14·88	14·93	15·51	15·04					17·48	16·56	16·04	16·04
25·0	14·73	14·93	15·51	15·04					17·48	16·45	15·97	16·04
30·0	14·67	14·93	15·56	15·04	14·47	16·04	16·97	17·02	17·39	16·40	15·97	16·09
35·0	14·67	14·99	15·56	14·93					17·28	16·30	15·92	16·09
40·0	14·67	14·99	15·56	14·93					17·13	16·30	15·92	16·09
45·0	14·67	14·99	15·56	14·67					17·13	16·30	15·92	16·09
50·0	14·67	14·99	15·56	14·47					17·09	16·40	15·92	16·09
55·0	14·73	15·09	15·51	14·40					16·97	16·40	15·92	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	17·390	17·360	17·800	18·070	18·270	17·850	17·280	16·640	16·240	16·400	16·700	16·910
7·0	17·390	17·360	17·800	18·090					16·240	16·400	16·700	16·910
12·0	17·360	17·400	17·810	18·090					16·300	16·400	16·710	16·910
17·0	17·400	17·410	17·810	18·100					16·300	16·400	16·710	16·940
22·0	17·390	17·460	17·860	18·110					16·300	16·440	16·760	16·940
27·0	17·410	17·430	17·860	18·110					16·380	16·440	16·800	16·940
32·0	17·440	17·500	17·860	18·110	18·000	17·600	16·900	16·400	16·300	16·440	16·800	16·940
37·0	17·470	17·570	17·890	18·110					16·300	16·470	16·800	16·940
42·0	17·470	17·610	17·930	18·160					16·310	16·470	16·810	16·960
47·0	17·400	17·670	17·970	18·160					16·360	16·540	16·870	16·960
52·0	17·400	17·710	18·000	18·160					16·360	16·560	16·910	16·990
57·0	17·360	17·710	18·040	18·240					16·400	16·640	16·910	17·000
Therm.	72°4	73°0	73°9	74°7	76°0	77°2	78°0	78°5	79°0	79°0	78°3	77°0

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	14·660	13·562	14·523	15·108	15·004	15·004	14·351	14·317	14·936	15·348	15·416	14·317	14·179
5·0	14·592	13·630	14·592	15·108	15·038					15·348	15·280	14·249	14·249
10·0	14·454	13·287	14·660	15·108	15·074					15·623	15·280	14·249	14·386
15·0	14·317	13·287	14·660	15·108	15·142					15·553	15·211	14·179	14·386
20·0	14·042	13·425	14·523	15·142	15·280					15·623	15·142	14·042	14·454
25·0	14·111	13·425	14·798	15·211	15·280					15·587	15·004	14·042	14·523
30·0	13·974	13·562	14·936	15·211	15·142	14·901	14·249	14·728	15·142	15·623	15·142	13·974	14·523
35·0	13·906	13·700	15·004	15·211	15·142					15·623	14·936	13·906	14·592
40·0	13·768	13·837	14·867	15·211	14·936					15·623	14·936	13·906	14·728
45·0	13·630	14·111	15·038	15·211	14·936					15·519	14·728	13·940	14·798
50·0	13·700	14·111	15·004	15·108	14·798					15·485	14·728	13·974	14·728
55·0	13·562	14·249	15·074	15·074	15·004					15·348	14·660	14·042	14·798

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·025	20·350	20·830	21·050	21·250	21·375	21·140	20·550	20·090	19·750	19·500	19·320	19·300
7·0	20·020	20·370	20·850	21·075	21·325					19·700	19·480	19·345	19·270
12·0	20·080	20·395	20·820	21·100	21·300					19·720	19·465	19·310	19·270
17·0	20·090	20·400	20·800	21·120	21·340					19·720	19·440	19·300	19·210
22·0	20·110	20·470	20·880	21·120	21·340					19·690	19·440	19·300	19·200
27·0	20·100	20·580	20·880	21·125	21·310					19·670	19·440	19·300	19·200
32·0	20·165	20·590	20·950	21·135	21·300	21·250	20·875	20·326	19·850	19·630	19·420	19·300	19·230
37·0	20·180	20·650	20·950	21·225	21·300					19·610	19·400	19·290	19·210
42·0	20·200	20·635	20·990	21·200	21·330					19·600	19·400	19·290	19·240
47·0	20·235	20·700	20·990	21·225	21·330					19·590	19·390	19·300	19·250
52·0	20·240	20·710	20·990	21·225	21·350					19·570	19·390	19·310	19·240
57·0	20·280	20·780	20·990	21·250	21·400					19·560	19·380	19·310	19·240
Therm.	75°0	76°2	76°0	76°5	79°0	80°0	81°5	82°5	82°9	83°1	83°0	81°7	80°8

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·44·00	1·12·50	1·45·00	1·31·50	1·08·10					1·17·00	0·44·00	0·31·50	1·04·50
8·0	1·40·50	1·10·00	1·46·50	1·31·50	1·08·10					1·17·00	0·44·00	0·31·50	1·05·50
13·0	1·39·50	1·13·00	1·45·00	1·21·25	1·08·10					1·21·00	0·44·00	0·26·00	1·07·00
18·0	1·40·00	1·22·00	1·48·00	1·21·25	1·02·00					1·21·00	0·40·50	0·26·00	1·06·00
23·0	1·40·00	1·22·00	2·00·00	1·21·25	1·02·00					1·21·00	0·40·50	0·26·00	1·09·50
28·0	1·36·00	1·28·50	2·00·00	1·21·25	1·02·00	0·28·10	0·12·05	0·40·00	1·05·50	1·13·00	0·40·50	0·26·00	1·03·50
33·0	1·30·50	1·33·00	1·42·00	1·21·25	1·02·00					1·13·00	0·38·00	0·27·00	1·03·50
38·0	1·27·50	1·38·00	1·38·50	1·21·25	1·02·00					1·10·00	0·38·00	0·29·00	1·00·00
43·0	1·12·50	1·39·50	1·38·50	1·21·25	0·48·10					1·10·00	0·38·00	0·34·50	0·48·00
48·0	0·42·50	1·39·50	1·38·50	1·11·10	0·48·10					1·03·00	0·38·00	0·44·00	0·46·50
53·0	0·41·00	1·43·00	1·38·50	1·11·10	0·48·10					1·03·00	0·38·00	0·45·50	0·46·80
58·0	1·09·00	1·45·00	1·31·50	1·11·10	0·41·50	0·12·05	0·25·00	0·44·50	1·17·00	0·44·00	0·35·50	1·03·00	0·45·50
Therm.	77°0	76°2	76°0	76°5	77°5	78°0	79°5	81°0	81°6	82°5	82°7	81°7	81°7

TERM HOUR OBSERVATIONS ON THE 26TH AND 27TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	14·89	15·40	16·25	16·30	16·35	15·51	15·77	16·24	16·56	16·76	15·97	15·19
5·0	14·93	15·45	16·40	16·30					16·56	16·66	15·92	15·30
10·0	14·93	15·56	16·45	16·30					16·61	16·61	15·77	15·30
15·0	14·93	15·66	16·45	16·30					16·71	16·56	15·61	15·40
20·0	14·93	15·77	16·50	16·30					16·76	16·40	15·56	15·45
25·0	14·99	15·87	16·50	16·30					16·76	16·30	15·40	15·56
30·0	14·99	15·92	16·56	16·30	16·04	15·51	16·04	16·58	16·82	16·19	15·30	15·66
35·0	15·04	16·04	16·56	16·35					16·92	16·14	15·19	15·77
40·0	15·09	16·09	16·56	16·40					16·97	16·09	15·14	15·82
45·0	15·14	16·14	16·50	16·40					16·97	16·09	15·09	15·92
50·0	15·30	16·19	16·45	16·40					16·92	16·09	15·09	15·97
55·0	15·35	16·30	16·40	16·35					16·87	16·09	15·09	15·97

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	17·970	18·240	18·480	18·700	18·860	18·490	17·700	17·600	17·470	17·470	17·440	17·360
7·0	17·990	18·260	18·500	18·700					17·470	17·440	17·440	17·360
12·0	18·000	18·300	18·540	18·740					17·470	17·440	17·400	17·360
17·0	18·000	18·300	18·540	18·770					17·470	17·440	17·400	17·360
22·0	18·040	18·300	18·560	18·600					17·470	17·460	17·400	17·380
27·0	18·090	18·310	18·590	18·800					17·470	17·460	17·370	17·360
32·0	18·110	18·360	18·590	18·800	18·550	17·990	17·700	1745 0	17·450	17·460	17·370	17·360
37·0	18·140	18·390	18·600	18·770					17·460	17·440	17·310	17·360
42·0	18·170	18·410	18·620	18·800					17·460	17·440	17·310	17·360
47·0	18·190	18·460	18·660	18·840					17·470	17·440	17·310	17·360
52·0	18·240	18·490	18·690	18·840					17·470	17·440	17·360	17·360
57·0	18·240	18·500	18·700	18·860					17·470	17·440	17·360	17·340
Therm.	70°0	70°4	71°6	72°5	74°2	76°0	77°7	78°9	79°6	79°4	79°0	78°0

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	13·906	14·386	15·623	16·721	16·447	15·142	13·906	14·249	14·523	14·179	15·074	14·249	14·042
5·0	13·906	14·592	15·897	16·721	16·447					14·317	15·074	14·179	14·042
10·0	13·637	14·660	15·956	16·823	16·309					14·386	15·074	14·179	14·249
15·0	13·974	14·728	16·034	16·990	16·172					14·454	15·004	14·042	14·386
20·0	14·179	14·867	15·906	16·994	16·102					14·592	15·004	13·906	14·386
25·0	14·249	14·867	16·172	17·064	15·828					14·660	14·936	13·906	14·454
30·0	14·386	14·798	16·240	16·994	15·828	14·454	14·317	14·317	14·454	14·660	14·936	13·871	14·523
35·0	14·523	14·936	16·348	16·926	15·623					14·728	14·798	13·871	14·523
40·0	14·317	15·004	16·343	16·789	15·553					14·867	14·728	13·837	14·454
45·0	14·386	15·211	16·378	16·721	15·416					14·936	14·660	13·837	14·454
50·0	14·249	15·485	16·447	16·653	15·348					15·004	14·660	13·837	14·386
55·0	14·249	15·691	16·447	16·515	15·211					15·004	14·592	13·906	14·454

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	20·050	20·360	20·590	20·910	20·900	20·910	20·855	20·260	20·070	20·150	19·810	19·540	19·650
7·0	20·070	20·410	20·620	20·910	20·900					20·090	19·800	19·500	19·650
12·0	20·070	20·375	20·640	20·900	20·910					20·070	19·765	19·580	19·610
17·0	20·090	20·430	20·640	20·940	20·900					20·050	19·750	19·640	19·600
22·0	20·095	20·490	20·650	20·900	20·910					20·020	19·740	19·650	19·600
27·0	20·130	20·500	20·700	20·940	20·920					19·920	19·730	19·690	19·560
32·0	20·150	20·550	20·750	20·900	20·940	20·900	20·575	20·190	19·870	19·905	19·690	19·745	19·510
37·0	20·200	20·590	20·750	20·950	20·930					19·930	19·700	19·700	19·480
42·0	20·270	20·580	20·800	20·970	20·925					19·880	19·700	19·730	19·500
47·0	20·335	20·580	20·825	20·975	20·920					19·850	19·610	19·670	19·500
52·0	20·250	20·600	20·875	20·970	20·910					19·840	19·610	19·660	19·480
57·0	20·290	20·640	20·875	20·925	20·900					19·840	19·600	19·650	19·420
Therm.	76°8	76°0		79°5	81°1	82°8	84°0	84°6	84°9	85°0	84°2	83°0	82°3

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
M. S.													
3·0	1·04·00	1·15·00	1·31·50	1·00·25	-0·07·95					-0·08·30	0·23·00	-0·23·00	0·19·50
8·0	1·00·50	1·16·50	1·33·50	1·08·10	-0·14·75					0·02·20	0·18·50	-0·25·00	0·26·00
13·0	1·05·60	1·25·00	1·33·00	1·08·10	-0·30·70					0·02·20	0·18·50	-0·25·00	0·31·50
18·0	1·02·50	1·24·50	1·33·00	1·08·10	-0·30·70					0·02·20	0·12·00	-0·24·00	0·34·00
23·0	0·48·00	1·22·00	1·31·50	1·08·10	-0·20·40					0·13·50	0·12·00	-0·24·50	0·34·00
28·0	0·48·00	1·22·00	1·32·00	0·43·70	-1·02·25	-1·00·30	0·01·05	-0·26·00	0·21·50	0·13·50	0·12·00	-0·23·00	0·38·50
33·0	1·02·50	1·24·50	1·18·00	0·34·10	-1·09·00					0·13·50	0·12·00	-0·24·50	0·38·50
38·0	1·17·50	1·29·00	1·18·00	0·26·65	-1·09·00					0·16·00	0·07·00	-0·17·50	0·38·50
43·0	1·23·80	1·29·50	1·18·00	0·22·90	-1·16·75					0·16·00	-0·03·00	-0·12·50	0·38·50
48·0	1·28·50	1·30·00	1·09·30	0·16·00	-1·16·75					0·19·00	-0·06·00	-0·05·50	0·38·50
53·0	1·20·00	1·36·50	1·09·30	0·10·75	-1·21·45					0·19·00	-0·06·00	0·03·00	0·35·50
58·0	1·11·00	1·33·50	1·07·50	0·00·40	-1·19·00	-0·26·50	0·01·25	-0·26·75	-0·08·30	0·19·00	-0·08·50	0·17·00	0·34·00
Therm.	79°2	78°0	77°6	78°0	79°4	80°8	82°0	80°8	83°4	83°6	83°6	82°8	83°0

TERM HOUR OBSERVATIONS ON THE 28TH AND 29TH DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
0·0	15·97	16·02	18·13	18·01	16·45	15·51	15·77	16·04	15·71	16·45	15·87	15·19
5·0	15·97	17·02	18·18	17·91					15·71	16·45	15·71	15·30
10·0	16·04	17·13	18·23	17·80					15·77	16·45	15·61	15·35
15·0	16·09	17·23	18·39	17·65					15·87	16·45	15·51	15·40
20·0	16·14	17·39	18·49	17·53					15·97	16·40	15·40	15·51
25·0	16·19	17·48	18·54	17·39					16·04	16·40	15·19	15·61
30·0	16·30	17·60	18·54	17·18	15·77	15·51	15·82	16·04	16·09	16·30	15·09	15·77
35·0	16·40	17·70	18·44	17·08					16·14	16·24	15·09	15·82
40·0	16·50	17·75	18·33	16·97					16·24	16·19	15·09	15·87
45·0	16·51	17·80	18·18	16·76					16·30	16·09	15·09	15·92
50·0	16·56	17·91	18·13	16·61					16·40	16·04	15·09	15·92
55·0	16·76	18·01	18·06	16·50					16·45	16·04	15·14	15·92

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.												
2·0	17·760	17·790	17·930	17·890	17·740	17·560	17·550	17·200	17·970	17·660	17·470	17·630
7·0	17·760	17·790	17·930	17·860					17·900	17·640	17·470	17·630
12·0	17·770	17·790	17·930	17·860					17·840	17·640	17·500	17·630
17·0	17·770	17·770	17·900	17·860					17·840	17·640	17·540	17·600
22·0	17·790	17·770	17·870	17·890					17·840	17·670	17·570	17·600
27·0	17·790	17·790	17·910	17 850					17·760	17·670	17·600	17·640
32·0	17·790	17·790	17·960	17·890	17·650	17·600	17·260	17·400	17·700	17·670	17·630	17·500
37·0	17·790	17·790	17·990	17·970					17·700	17·630	17·630	17·509
42·0	17·790	17·860	17·990	17·870					17·700	17·630	17·630	17·460
47·0	17·790	17·900	17·990	17,830					17·700	17,540	17·600	17·460
52·0	17·790	17·930	17·970	17·800					17·708	17·500	17·600	17·440
57·0	17·790	17·930	17,930	17·770					17·660	17·500	17·600	17·400
Therm.	71°4	72°0	73°7	75°4	77°0		80°0	80°4	81°0	80°4	80°0	79°0

TERM HOUR OBSERVATIONS ON THE 30TH AND 31ST DECEMBER 1847.

DECLINATION BY LARGE MAGNETOMETER.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
0·0	15·280	14·317	15·623	16·309	16·515	15·348	14·762	14·867	15·142	14·901	15·004	13·974	13·974
5·0	15·280	14·249	15·691	16·309	16·515					14·798	15·038	13·974	13·974
10·0	15·211	14·623	15·760	16·378	16·447					14·867	15·074	13·837	14·111
15·0	15·074	14·592	15·897	16·378	16·309					15·004	14·936	13·837	14·249
20·0	14·936	14·592	15·966	16·309	16·240					15·004	14·798	13·768	14·317
25·0	14·867	14·798	15·966	16·378	16·102					15·038	14·660	13·700	14·386
30·0	14·660	14·936	16·172	16·378	16·031	14·762	14·660	15·074	14·867	15·038	14·592	13·700	14·386
35·0	14·523	14·936	15·956	16·447	15·965					15·211	14·626	13·768	14·386
40·0	14·592	14·936	16·136	16·309	15·897					15·142	14·454	13·768	14·454
45·0	14·592	15·004	16·034	16·309	15·760					15·176	14·317	13·768	14·454
50·0	14·728	15·211	16·240	16·309	15·691					15·211	14·179	13·837	14·454
55·0	14·356	15·485	16·309	16·309	15·623					15·142	13·974	13·837	14·454

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.													
2·0	19·550	19·750	20·070	20·010	20·125	20·075	19·650	19·200	18·970	18·730	18·825	18·910	19·020
7·0	19·550	19·765	20·080	20·020	20·150					18·755	18·830	18·925	19·050
12·0	19·560	19·810	20·035	20·010	20·150					18·755	18·830	18·930	19·020
17·0	19·550	19·870	19·950	20·015	20·150					18·760	18·840	18·945	18·990
22·0	19·550	19·950	19·965	20·025	20·200					18·780	18·865	18·945	18·960
27·0	19·540	20·000	20·020	20·030	20·200					18·800	18·890	18·950	18·950
32·0	19·575	20·000	20·030	20·065	20·140	19·900	19·460	19·100	18·810	18·810	18·920	18·930	18·940
37·0	19·610	20·010	20·020	20·080	20·125					18·820	18·885	19·020	18·910
42·0	19·600	20·040	20·030	20·125	20·090					18·840	18·880	19·020	18·950
47·0	19·620	20·095	20·000	20·150	20·070					18·840	18·890	19·035	18·940
52·0	19·650	20·090	20·005	20·150	20·065					18·820	18·900	19·030	18·915
57·0	19·675	20·100	20·000	20·170	20·075					18·815	18·905	19·020	18·900
Therm.	77°7	77°4	77°0	80°0	81°7	83°0	84°6	85°1	86°0	86°2	85°3	84°0	82°4

VERTICAL FORCE MAGNETOMETER *(in Micrometer Readings)*.

Göttingen Mean Time.	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. S.	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
3·0	0·05·00	0·09·50	1·04·00	1·06·00	-0·10·75					-0·17·50	-0·19·00	-0·18·00	0·40·00
8·0	0·07·50	0·18·00	1·08·50	0·41·00	-0·22·00					-0·17·50	-0·19·00	-0·19·00	0·38·50
13·0	-0·11·50	0·22·00	1·13·00	0·41·00	-0·27·90					-0·17·50	-0·19·00	-0·19·00	0·30·00
18·0	-0·20·50	0·31·00	1·10·50	0·33·50	-0·39·30					-0·12·00	-0·19·00	-0·03·50	0·28·00
23·0	-0·20·50	0·32·50	1·14·00	0·27·00	-0·49·90					-0·12·00	-0·19·00	-0·07·50	0·22·50
28·0	-0·08·00	0·41·50	1·10·50	0·27·00	-1·07·75	-2·01·50		-0·20·75	-0·32·50	-0·17·00	-0·19·00	0·04·00	0·21·50
33·0	-0·10·00	0·41·50	1·15·50	0·16·05	-1·07·75					-0·17·00	-0·16·00	0·02·00	0·20·00
38·0	-0·06·50	0·43·00	1·15·50	0·16·05	-1·43·55					-0·17·00	-0·16·00	0·04·00	0·17·50
43·0	-0·06·50	0·42·50	1·15·50	0·07·50	-1·26·25					-0·17·00	-0·17·00	0·05·50	0·17·50
48·0	-0·06·50	0·44·00	1·41·95	0·07·50	-1·15·00					-0·24·00	-0·17·00	0·13·00	0·17·50
53·0	0·02·50	0·46·00	1·38·10	0·07·50	-1·15·00					-0·24·00	-0·17·00	0·27·00	0·14·00
58·0	0·07·00	1·03·00	1·06·00	-0·10·75	-2·07·80	-1·27·05	-0·18·75	-0·25·50	-0·17·50	-0·19·00	-0·18·70	0·40·00	0·16·50
Therm.	79°3	78°6	78°0	78°5	79°9	81°5	82°5	83°8	84°6	85°3	84°3	83°7	83°5

TERM HOUR OBSERVATIONS ON THE 30TH AND 31ST DECEMBER 1847.

SMALL DECLINATION MAGNETOMETER *(in arc)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
0·0	15·97	17·02	17·91	18·06	16·61	16·04	16·24	16·56	16·24	16·45	15·51	15·40
5·0	15·97	17·08	17·91	17·96					16·24	16·40	15·40	15·51
10·0	15·97	17·13	17·96	17·80					16·21	16·40	15·30	15·61
15·0	16·04	17·23	18·06	17·65					16·30	16·35	15·25	15·66
20·0	16·09	17·39	18·06	17·50					16·35	16·19	15·14	15·77
25·0	16·19	17·53	18·13	17·53					16·40	16·14	15·04	15·92
30·0	16·35	17·60	18·13	17·39	16·19	16·04	16·50	16·24	16·50	16·09	14·99	15·97
35·0	16·40	17·60	18·13	17·23					16·50	16·04	14·99	15·97
40·0	16·61	17·65	18·06	17·18					16·56	15·97	14·99	15·97
45·0	16·71	17·70	18·06	17·13					16·56	15·92	15·09	15·97
50·0	16·76	17·88	18·06	16·92					16·56	15·77	15·14	15·97
55·0	16·92	17·86	18·06	16·76					16·50	15·61	15·30	16·04

SMALL HORIZONTAL FORCE *(in Scale Readings)*.

Göttingen Mean Time.	15h	16h	17h	18h	19h	20h	21h	22h	23h	Noon.	1h	2h
M. s.												
2·0	16·990	17·070	16·600	16·790	16·670	16·000	15·600	15·400	16·260	16·540	16·700	17·040
7·0	16·990	17·040	16·600	16·740					16·290	16·570	16·740	17·040
12·0	16·980	16·960	16·550	16·770					16·300	16·600	16·740	17·040
17·0	17·000	16·900	16·550	16·830					16·340	16·640	16·740	17·040
22·0	17·040	16·830	16·530	16·890					16·370	16·640	16·760	17·000
27·0	17·070	16·790	16·530	16·900					16·370	16·640	16·800	16·990
32·0	17·050	16·770	16·570	16·900	16·300	15·800	15·400	15·880	16·400	16·660	16·800	16·970
37·0	17·100	16·710	16·600	16·910					16·470	16·660	16·900	16·910
42·0	17·100	16·670	16·670	16·830					16·470	16·660	16·960	16·870
47·0	17·100	16·640	16·700	16·770					16·470	16·660	16·990	16·870
52·0	17·100	16·640	16·730	16·770					16·490	16·960	17·000	16·830
57·0	17·110	16·640	16·790	16·770					16·490	16·700	17·000	16·800
Therm.	73°0	63°7	74°9	76°0	78°0	80°0	81°4	81°9	82°0	81°7	80°4	79°0

BOMBAY MAGNETICAL OBSERVATIONS.

REGISTER OF DISTURBANCE OBSERVATIONS.

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			*Sca.*	*Sca.*			*t. d.*			
Feb. 15·20·00	13·527	12·90	20·050	7·150	80°0	77°4	0·11·25	78°2	−1°28′61	1°42′14
22·00	15·211	14.93	18·550	5·950	80·0	78·0	1·41·00	79·4	−1·27·32	1·42·43
22·15	14·798	14·40	18·560	6·050	80·0	78·0	1·22·70	79·5	−1·27·46	1·42·26
22·30	14·728	14·40	18·620	6·070	80·0	78·0	1·20·00	79·5	−1·27·60	1·42·33
22·45	14·798	14·40	18·670	6·200	80·0	78·0	1·14·00	79·8	−1·27·46	1·42·26
23·00	14·660	14·25	18·650	6·200	80·0	78·0	1·10·00	79·8	−1·27·60	1·42·26
Feb. 22· 6·00	14·008	13·42	17·000	5·250	80·4	79·8	4·37·50	82·5	−1·29·32	1·43·34
6·30	13·906	13·42	17·275	5·515	80·4	78·2	4·21·60	82·6	−1·29·76	1·43·67
7·00	14·523	13·68	16·900	5·200	80·2	78·0	4·40·10	82·5	−1·28·76	1·43·27
7.15	14·694	13·94	17·100	5·350	80·2	78·0	4·32·75	82·2	−1·28·61	1·43·30
7·30	14·762	14·47	17·250	5·450	80·2	78·0	4.31·25	82·0	−1·28·61	1·43·27
7·45	14·626	13·94	17·300	5·600	80·0	78°0	4·24·90	82·0	−1·28·61	1·43·24
Feb. 24· 8·00	14·283	13·94	18·625	6·800	77·5	74·0	4·27·50	79·5	−1·29·33	1·43·61
8·15	14·249	13·42	18·900	7·000	77·3	74·0	4·27·50	79·3	−1·30·55	1·44·30
8·30	13·337	13·42	18·650	6·680	77·0	74·0	4·41·50	79·0	−1·29·76	1·43·60
9·00	14·386	13·94	18·230	6·290	76·9	73·5	5·14·00	78·6	−1·29·19	1·43·58
9·30	14·454	14·20	18·130	6·170	76·8	73·0	5·12·50	78·5	−1·28·90	1·43·35
10·00	14·592	14·20	18·060	6·100	76·4	72·3	5·06·70	78·1	−1·29·19	1·43·78
11·00	14·111	13·88	18·325	6·010	75·5	72·0	5·06·70	77·5	−1·29·76	1·43·78
12·00	14·040	13·62	18·750	6·080	74·5	71·0	5·06·70	—	−1·29·91	1·43·95
Mar. 1· 4·15	14·008	13·42	16·450	4·150	80·5	78·6	5·02·80	83·0	−1·28·76	1·42·77
4·30	14·283	13·42	16·700	4·315	80·4	78·6	5·08·00	82·7	−1·28·76	1·43·04
4·45	13·906	13·42	17·200	4·900	80·3	78·6	4·42·05	82·5	−1·28·76	1·42·67
5·00	14·728	14·47	16·900	4·500	80·2	78·6	5·22·00	82·5	−1·28·47	1·43·20
5·15	15·318	14·73	16·650	4·300	80·0	78·4	5·25·90	82·5	−1·27·32	1·42·67
5·30	15·897	14·99	16·510	4·100	80·0	78·2	5·38·40	82·5	−1·27·17	1·43·07
5·45	16·000	14·99	16·300	3·900	80·0	78·2	5·38·40	82·5	−1·27·17	1·43·17
6·00	15·897	14·99	15·900	3·460	80·0	78·2	5·28·30	82·3	−1·27·25	1·43·15
6·15	15·397	14·99	15·700	3·200	80·0	78·2	5·28·30	82·3	−1·27·17	1·43·07
6·30	15·794	14·99	15·825	3·510	80·0	78·0	5·28·30	82·0	−1·27·17	1·42·96
6·45	15·897	14·99	16·010	3·750	80·0	78·0	5·36·35	82·0	−1·27·17	1·43·07

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			*Sca.*	*Sca.*			*t d*			
MAR. 1· 7·00	15·553	14·99	15·925	3·650	80·0	78·0	5·30·25	82·0	−1°27·17	1°42·72
7·15	16·000	15·51	15·880	3·550	79·9	78·0	6·03·85	82·0	−1·27·17	1.43.17
7·30	16·653	15·77	15 750	3·440	79·7	77·8	6·19·50	82·0	−1·27·03	1·43·68
7·45	16·378	15·51	15·750	3·400	79·7	77·6	5·39·80	81·7	−1·27·17	1.43·55
8·00	16·309	15·25	15·600	3·130	79·5	77·4	5·39·80	81·6	−1·27·17	1·43·48
8·15	16·653	16·04	15·505	3·020	79·3	77·4	5·48·70	81·6	−1·26·74	1·43·39
8·30	17·030	16·56	15·475	3·000	79·3	77·2	5·48·70	81·6	−1·26·16	1·43·19
8·45	17·339	16·35	15·410	2·980	79·3	76·9	6·09·65	81·5	−1·26·45	1·43·78
9·00	16·996	16·04	15·350	2·900	79.2	76·8	5·05·30	81·5	−1·26·59	1·43·58
9·15	16·549	16·04	15·710	3·470	79·2	76·8	5·09·25	81·5	−1·26·74	1·43·28
9·30	16·378	15·77	16·025	3·720	79·2	76·8	4·49·00	81·5	−1·26·59	1·43·97
9·45	16·653	16·14	16·000	3·800	79·0	76·8	5·05·25	81·5	−1·26·74	1·43·39
10·00	17·064	16·04	16·020	4·000	79·2	76·8	5·16·85	81·5	−1·26·59	1·43·65
10·15	16·996	16·04	16·290	4·200	79·2	76·8	5·11·20	81·5	−1·26·59	1·43·58
10·30	17·270	16·50	16·545	4·420	79·1	76·6	5·19·85	81·5	−1·26·16	1·43·43
10·45	17·304	16·56	16·620	4·500	79·0	76·6	5·19·85	81·5	−1·26·02	1·43·32
11·00	17·750	17·02	16·672	4·540	79·0	76·5	5·39·40	81·5	−1·25·74	1·43·49
11·15	17·407	16·56	16·685	4·600	79·0	76·4	5·23·00	81·5	−1·26·02	1·43·43
11·30	16·823	15·92	16·707	4·590	78·8	76·3	4·48·45	81·5	−1·26·59	1·43·41
11·45	16·412	15·51	16·687	4·500	78·6	76·2	5·01·35	81·5	−1·26·74	1·43·15
12.00	15·845	15·19	16·665	4·430	78·6	76·0	4·44·55	81·3	−1·27·17	1·43·01
12.15	16·068	15·40	16·785	4·510	78·4	76·0	5·06·30	81·4	−1·27·17	1.43.24
12·30	15·966	15·30	16·850	4·600	78·4	76·0	5·20·30	81·4	−1·27·17	1·43·14
12·45	15·931	15·09	17·145	4·900	78·4	76·0	5·20·80	81·4	−1·27.17	1·43.10
13·00	15·760	14·99	17·265	5·000	78·0	76·0	5·32·60	81·4	−1·27·17	1·42·93
13·30	15·966	15·45	17·170	4.710	77·9	75·6	5·16·60	81·0	−1·27·17	1·43·14
13·45	15·794	15·40	17·100	4·630	77·8	75·4	5·16·60	81·0	−1·27·17	1·42·96
14·00	16·102	15·40	17·100	4·630	77·6	75·2	5·16 60	80·9	−1·27·17	1·43·27
14·15	15·862	15·09	17·270	4·700	77·4	75·0	5·45·70	80·5	−1·27·17	1·43·03
14·30	16·240	15·51	17·292	4·640	77·2	74·7	5·27·10	79·9	−1·27·17	1·43·41
14·45	16·291	15·51	17·380	4·560	77·0	74·6	5·15·00	79·4	−1·27·17	1·43·46
15·00	16·240	15·45	17·390	4·650	77·2	74·6	5·08·40	79·2	−1·27·32	1·43·56
15·30	16·206	15·19	17·355	4·940	78·0	75·2	4·39·40	79·0	−1·27·32	1·43·53
16·00	15·691	14·88	17·610	4·960	78·8	76·0	4·19·00	79·2	−1·28·03	1·43·72
16·30	15·416	14·47	17·660	4·900	79·9	76·2	3·34·10	79·5	−1·28·54	1·43·96
17·00	14·901	14·47	17·760	4·860	80·9	77·8	3·22·00	80·0	−1·28·61	1·43·51
17·30	14·592	13·94	17·900	5·000	81·0	78·0	3·00·21	80·5	−1·28·68	1·43·27
18·00	14·317	13·47	17·810	5·000	82·2	79·9	3·04·00	81·0	−1·28.61	1·42.93
18.15	13·906	13.16	17·800	5·000	82·2	79·6	2·42·60	81·5	−1·29·04	1·42·95
18·30	13·837	12·90	17·850	5·050	82 2	79·8	2·42·60	81·5	−1·29·04	1·42·88
18·45	13·253	12·47	17·850	5·050	82·3	80·0	2·42·60	81·5	−1·29·91	1·43·16
19·00	12·876	—	17·850	5·100	82·9	80·0	2·35·60	81·5	−1·30·05	1·42·93
19·15	12·533	11·85	17·900	5·150	83·0	80·2	2·33·20	81·8	−1·30·05	1·42·58
19·30	12·463	11·85	17·800	5·050	83·0	80·6	2·46·10	82·0	−1·30·05	1·42·51
19·45	12·290	16.19	17·760	5·090	83·0	81·0	3·08·90	82·0	−1·30·19	1·42·48
20·00	12·183	11·33	17·750	5·155	83·3	81·6	3·16·04	82·3	−1·30·19	1·42·38
20·15	12·188	11.33	17·750	5·150	83·3	82·0	—	—	−1·30·19	1·42·38
MAR. 19· 3·30	16·274	14·99	14·155	1·000	82·3	80·0	6·13·00	84·9	−1·28·61	1·44·88
4·00	15·760	14·47	15·650	2·470	82·0	79·7	5·41·00	84·9	−1·29.19	1·44·95
5·00	16·274	14·99	15·700	2·550	82·0	79·2	6·29·40	85·0	−1·28·61	1·44·88
6·00	16·309	15·51	14·750	1·350	82·0	79·2	6·41·80	85·0	−1·28·61	1·44·92
6·30	16·309	15·51	14·575	1·110	81·9	79·2	7·06·50	84·6	−1·28·61	1·44·92
7·00	16·653	15·51	14·550	1·100	81·8	79 0	7·15·10	84·4	−1·28·54	1·45·19
7·30	16·481	15·51	14·590	1·115	81·5	79·0	7·15·40	84·0	−1·28·61	1·45·09
8·00	16·926	16·04	14·600	1·100	81·4	78·8	7·15·40	84·0	−1·28·61	1·45·54
8·30	16·653	14·73	15·492	2·480	81·3	78·7	6·24·50	83·9	−1·28·90	1·45·55
9·00	14·076	13·05	16·122	3·930	81·2	78·7	5·41·45	83·7	−1·30·19	1·42·27
9·30	14·745	14·04	16·435	3·140	81·2	78·6	7·12·55	83·7	−1·29·62	1·44·36
10·00	15·845	15·09	15·797	2·400	81·2	78·4	7·23·45	—	−1·28·90	1·44·74
10·30	16·068	15·25	15·810	2·417	81·2	78·7	7·35·60	83·7	−1·29·76	1·45·83

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
MAR. 19·11·00	16·068	14·99	15·560	2·300	81°2	78°5	7·21·70	83°8	-1°28'90	1°44'97
11·30	15·623	14·20	16·007	3·000	81·2	78·3	7·21·70	83·7	-1·29·33	1·44·95
12·00	15·038	14·35	16·725	3·290	80·4	78·0	8·00·25	83·6	-1·29·76	1·44·80
12·30	15·828	14·99	16·670	3·000	80·0	77·6	8·14·30	83·5	-1·29·47	1·45·30
13·00	15·931	14·99	16·600	2·810	80·0	77·6	8·08·20	83·5	-1·29·62	1·45·55
13·30	15·760	14·99	16·785	2·920	80·3	77·8	7·35·50	83·7	-1·29·91	1·45·67
14·00	15·794	14·99	16·860	2·800	80·3	77·8	7·42·70	83·8	-1·29·91	1·45·70
14·30	15·897	15·30	16·535	2·540	80·3	78·0	7·35·90	82·5	-1·29·47	1·45·37
15·00	15·623	14·78	17·325	3·450	80·4	78·0	6·22·50	81·7	-1·29·17	1·45·09
15·30	15·142	14·47	16·240	2·500	80·8	78·0	7·12·00	81·7	-1·30·05	1·45·19
16·00	15·897	15·51	15·550	1·600	81·0	78·2	6·38·20	81·7	-1·29·33	1·45·23
16·30	15·553	14·57	15·510	1·700	81·5	79·0	5·42·40	81·9	-1·30·05	1·45·60
17·00	17·339	16·56	15·180	0·630	82·0	79·7	6·21·00	82·0	-1·23·61	1·45·95
17·30	15·280	14·47	15·100	0·500	83·0	80·2	6·20·50	82·5	-1·30·55	1·45·83
18·00	14·867	14·09	15·460	1·350	83·5	81·6	6·39·50	83·1	-1·30·33	1·45·20
18·30	14·660	13·94	16·260	2·200	84·0	81·9	6·10·00	83·5	-1·30·15	1·45·11
19·00	14·249	—	16·330	2·440	84·3	82·0	6·10·00	83·6	-1·30·76	1·45·01
19·30	13·700	12·90	16·330	2·490	84·5	83·0	6·10·00	83·6	-1·31·19	1·44·89
20·00	13·219	12·57	16·400	2·630	85·0	83·8	6·10·00	83·6	-1·31·34	1·44·56
20·30	12·806	12·00	16·410	2·700	85·2	84·0	—	—	-1·31·63	1·44·44
APRIL 7· 17·00	16·823	16·04	15·950	34·600	84·3	82·0	6·12·60	84·5	-1·30·05	1·46·87
17·30	16·549	15·71	15·700	34·350	84·5	82·0	5·37·95	84·5	-1·30·40	1·46·95
18·00	16·309	15·51	15·700	34·150	84·5	82·0	5·21·20	84·5	-1·31·05	1·47·33
18·30	14·936	14·20	15·800	34·100	85·0	82·0	—	—	-1·32·06	1·47·00
19·00	14·660	13·68	15·770	33·700	85·2	—	—	—	-1·32·92	1·47·53
19·30	13·940	13·42	14·750	32·550	86·0	84·0	5·13·25	85·6	-1·32·92	1·46·86
20·00	13·630	13·42	14·850	32·500	86·5	84·6	5·09·90	86·0	-1·33·07	1·46·70
20·30	14·179	13·45	14·650	32·200	87·0	85·6	7·06·30	87·5	-1·33·07	1·47·25
21·00	14·317	13·88	14·607	32·390	87·3	86·0	7·26·15	87·4	-1·32·92	1·47·24
21·30	15·108	14·47	14·330	32·480	87·6	86·4	7·38·05	87·6	-1·32·34	1·47·45
22·00	15·108	13·68	14·770	33·200	87·5	86·4	7·25·10	87·8	-1·32·63	1·47·74
22·30	14·987	14·35	15·220	33·700	87·5	86·3	7·19·15	88·0	-1·32·34	1·47·33
23·00	14·523	13·83	15·350	33·940	87·5	86·3	6·45·40	88·0	-1·32·34	1·46·86
23·30	14·386	13·68	15·310	33·880	87·4	86·0	7·08·90	88·3	-1·32·49	1·46·88
APRIL 8· 0·00	14·488	13·88	15·215	33·840	87·2	86·0	6·48·05	88·0	-1·32·49	1·46·98
0·30	14·317	13·42	15·160	33·820	87·0	86·0	6·37·40	87·7	-1·32·92	1·47·24
1·00	13·906	13·21	15·360	34·050	86·6	85·6	6·23·30	87·5	-1·32·92	1·46·83
1·30	13·837	13·00	15·540	34·300	86·4	85·3	6·29·00	87·4	-1·32·92	1·46·76
2·00	13·906	13·21	15·430	34·300	86·0	85·0	6·36·00	86·9	-1·32·92	1·46·83
2·30	13·974	13·42	15·300	34·200	85·6	84·0	7·04·90	86·9	-1·32·92	1·46·89
3·00	14·249	13·42	15·310	34·300	85·3	84·0	7·14·20	87·0	-1·32·92	1·47·17
3·30	14·592	13·94	15·410	34·380	85·1	83·8	7·14·20	87·2	-1·32·63	1·47·22
4·00	14·660	13·94	15·555	34·590	85·0	83·4	7·10·70	87·2	-1·32·63	1·47·29
4·30	14·936	13·42	15·700	34·700	85·0	83·0	7·19·00	87·0	-1·32·49	1·47·43
APRIL 19·16·00	15·280	15·510	19·700	38·680	82·8	79·4	7·17·80	83·4	-1·32·63	1·47·91
16·30	14·660	15·070	19·700	38·650	82·8	79·0	6·41·25	83·0	-1·32·92	1·47·58
17·00	13·906	13·990	20·600	39·550	82·7	79·0	4·40·70	83·0	-1·32·92	1·46·83
17·30	12·876	13·420	19·880	38·715	82·7	79·2	4·16·75	82·8	-1·34·86	1·47·24
18·00	12·188	12·370	20·450	39·350	82·8	79·6	4·31·75	82·6	-1·34·35	1·46·55
18·15	11·845	12·370	20·350	39·150	82·9	79·8	4·30·90	82·6	-1·34·36	1·46·21
18·30	11·569	11·850	20·300	39·015	83·0	79·8	4·36·50	82·7	-1·34·50	1·46·07
18·45	11·845	11·850	20·110	38·710	83·0	80·0	4·39·85	82·5	-1·35·07	1·46·92
19·00	12·015	—	18·950	37·600	83·0	80·0	5·48·15	82·7	-1·35·07	1·47·08
19·15	11·501	11·980	19·200	37·700	83·2	80·0	4·40·90	83·0	-1·35·36	1·46·86
19·30	11·501	12·370	18·825	37·250	83·5	80·0	4·44·90	83·0	-1·35·36	1·46·86
19·45	11·845	12·370	18·250	36·600	83·8	80·2	5·27·40	83·4	-1·34·93	1·46·78
20·00	11·879	12·550	17·925	36·200	84·0	80·8	5·27·40	83·5	-1·34·80	1·46·73
20·15	12·188	12·900	17·550	35·625	81·0	81·0	5·34·40	83·6	-1·34·78	1·46·97

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			*Sca.*	*Sca.*			*t d*			
April 19 20 30	12·188	12·900	16·950	35·050	84°0	81°6	6·10·05	84°0	-1°34'78	1°46'97
20 45	12·050	12·900	16·750	34·900	84·6	82·0	6·10·05	84·1	-1·34·78	1·46·83
21 00	12·533	12·900	16·500	34·500	84·8	82·0	6·23·70	84·4	-1·34·36	1·46·89
21 15	12·533	13·420	16·165	34·100	85·0	82·0	6·35·20	84·5	-1·34·36	1·46·89
21 30	12·978	13·880	15·755	33·590	85·0	82·4	7·08·50	84·7	-1·34·36	1·47·34
21 45	13·562	14·200	15·455	33·200	85·5	83·0	7·30·00	85·0	-1·34·36	1·47·92
22 00	13·734	14·470	15·290	33·000	85·6	83·0	7·37·70	85·2	-1·34·22	1·47·95
22 15	14·317	13·520	14·990	32·690	85·7	83·0	8·13·75	85·2	-1·33·35	1·47·67
22 30	14·592	13·620	14·910	32·600	85·9	83·2	8·13·75	85·4	-1·33·21	1·47·80
22 45	15·176	16·040	14·720	32·400	85·9	83·0	8·19·15	85·5	-1·32·63	1·47·81
23 00	15·623	15·560	14·620	32·310	85·9	83·2	8·21·05	85·6	-1·32·49	1·48·11
23 15	16·755	16·970	14·550	32·280	86·0	83·2	8·33·10	85·5	-1·31·91	1·48·66
23 30	16·378	17·080	14·560	32·240	86·0	83·4	8·27·35	85·5	-1·31·77	1·48·15
23 45	16·584	17·080	14·550	32·400	86·0	83·4	8·27·35	85·6	-1·31·77	1·48·35
April 20 0 00	16·172	17·13	14·450	32·200	85·9	83·4	7·48·25	85·6	-1·31·77	1·47·94
0 15	16·996	17·70	14·490	32·320	85·8	83·6	8·39·20	85·6	-1·31·19	1·48·19
0 30	17·167	17·60	14·350	32·220	85·6	83·4	8·30·25	85·5	-1·31·19	1·48·36
0 45	16·926	17·60	14·045	31·980	85·4	83·6	7·30·80	85·5	-1·31·19	1·48·12
1 00	16·996	17·39	14·040	32·100	85·2	83·6	7·30·80	85·5	-1·31·19	1·48·19
1 15	16·274	16·56	14·120	32·130	85·0	83·6	7·13·20	85·4	-1·31·77	1·48·04
1 30	15·760	16·24	13·900	31·950	85·0	83·6	7·03·00	85·3	-1·32·06	1·47·82
1 45	15·416	16·04	13·760	31·760	84·9	83·3	6·47·70	85·1	-1·32·20	1·47·62
2 00	15·416	16·04	13·740	31 850	84·9	83·3	7·06·00	85·0	-1·32·34	1·47·76
2 15	15·142	15·51	13·750	31·900	84·9	83·3	7·06·00	85·0	-1·32·63	1·47·77
2 30	14·523	14·99	13·650	31·760	84·9	83·2	7·06·00	85·3	-1·32·92	1·47·44
2 45	14·660	15·51	13·330	31·430	84·8	83·0	7·15·80	85·4	-1·32·63	1·47·29
3 00	15·760	16·04	13·420	31·600	84·7	83·0	7·39·60	85·6	-1·31·91	1·47·67
3 15	15·828	16·04	13·600	31·840	84·7	83·0	7·28·60	85·9	-1·31·77	1·47·60
3 30	15·725	16·04	13·760	32·060	84·6	83·0	7·28·60	86·0	-1·31·77	1·47·50
3 45	15·553	16·04	13·890	32·200	84·5	82·9	7·28·60	86·0	-1·31·77	1·47·32
4 00	15·587	16·04	14·050	32·470	84·5	82·7	7·23·00	86·0	-1·31·77	1·47·36
4 15	15·348	16·04	14·190	32·590	84·5	82·2	7·18·00	86·0	-1·31·48	1·46·83
4 30	15·348	16·04	14·215	32·650	84·5	82·2	7·18·00	86·0	-1·31·48	1·46·83
4 45	15·623	16·04	14·250	32·700	84·3	82·0	7·18·00	86·0	-1·31·48	1·47·10
5 00	15·897	16·04	14·150	32·650	84·0	82·0	7·32·30	86·0	-1·31·48	1·47·38
5 15	15·966	16·04	14·400	32·815	84·0	82·0	7·39·70	86·0	-1·31·48	1·47·05
5 30	15·966	16·04	14·450	32·900	84·0	82·0	7·39·70	86·0	-1·31·48	1·47·45
5 45	15·348	16·04	14·500	32·915	84·0	82·0	7·27·75	86·0	-1·31·48	1·46·83
6 00	15·794	16·04	14·650	33·150	83·7	82·0	7·36·75	86·0	-1·31·48	1·47·27
6 15	15·280	16·04	14·825	33·250	83·7	82·0	7·22·50	86·0	-1·31·48	1·46·76
6 30	15·897	16·04	14·865	33·250	83·7	82·0	7·37·90	86·0	-1·31·48	1·47·38
6 45	16·162	16·56	14·915	33·350	84·0	82·0	7·47·75	86·0	-1·31·48	1·47·64
7 00	15·966	16·56	15·000	33·400	84·0	82·0	7·34·95	86·0	-1·31·48	1·47·45
7 15	16·653	16·82	14·955	33·425	84·0	82·0	7·47·60	86·0	-1·31·19	1·47·84
7 30	16·653	16·82	14·940	33·450	84·0	82·0	7·41·50	86·0	-1·30·90	1·47·55
7 45	16·653	17·08	14·950	33·550	83·9	81·8	8·04·50	86·0	-1·30·19	1·46·84
8 00	16·789	17·18	14·950	33·600	83·8	81·6	8·04·50	85·9	-1·30·05	1·46·84
8 15	16·653	17·08	15·212	33·900	83·4	81·6	7·42·50	85·7	-1·30·47	1·47·12
8 30	16·789	17·08	15·320	34·000	83·4	81·6	7·42·50	85·7	-1·30·33	1·47·12
8 45	16·996	17 48	15·320	34·000	83·4	81·6	8·07·25	85·6	-1·30·19	1·47·19
9 00	17·267	17·13	15·550	34·220	83·5	81·6	8·17·90	85·6	-1·30·19	1·47·46
9 15	16·584	17·08	15·800	34·400	83·4	81·5	8·49·40	85·6	-1·30·33	1·46·91
9 30	16·378	16·66	15·820	34·400	83·3	81·4	9·38·10	85·6	-1·30·33	1·46·71
9 45	16·584	17·08	15·895	34·450	83·2	81·0	10·12·50	85·6	-1·30·33	1·46·91
10 00	16·789	17·08	15·980	34·520	83·2	81·1	10·25·00	85·5	-1·30·33	1·47·12
10 15	16·789	17·08	16·020	34·580	83·2	81·0	10·29·05	85·4	-1·30·33	1·47·12
10 30	16·515	17·02	16·025	34·600	83·0	80·8	10·22·25	85·3	-1·30·33	1·46·84
10 45	16·553	17·08	16·142	34·690	83·0	80·8	10·32·25	85·3	-1·30·33	1·46·98
11 00	16·515	17·08	16·160	34·710	83·2	80·8	10·32·25	85·2	-1·30·33	1·46·84
11 15	16·515	17·02	16·170	34·790	83·2	80·7	10·32·25	85·2	-1·30·33	1·46·84

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	3½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
April 20 11·30	16·378	16·66	16·140	34.750	83°2	80°7	10·35·45	85°2	-1°30·33	1°46·71
11·45	16·623	16·66	16·150	34·800	83·0	80·5	10·35·45	85·3	-1·30·33	1·45·95
12·00	16·309	16·97	16·250	34·900	83·0	80·7	10·35·45	85·3	-1·30·33	1·46·64
12·15	16·584	17·08	16·300	34·910	83·0	80·6	11·12·80	85·4	-1·30·33	1·46·91
12·30	16·447	16·76	16·350	35·000	83·0	80·6	11·00·00	85·4	-1·30·19	1·46·64
12·45	16·549	17·08	16·440	35·105	83·0	80·6	10·45·10	85·4	-1·30·12	1·46·67
13·00	16·653	17·08	16·490	35 120	82·9	80·6	10·45·10	85·4	-1·30·12	1·46·77
13·15	16·653	17·08	16·500	35·140	82·9	80·5	11·05·70	85·4	-1·30·12	1·46·77
13·45	16·789	17·08	16·650	35·210	82·8	80·5	11·15·60	84·0	-1·30·05	1·45·84
14·00	16·926	17·18	16·730	35·380	82·8	80·1	10·49·00	84·4	-1·29·91	1·46·84
14·15	17·064	—	16 690	—	—	—	10·49·00	—	—	—
14·30	17·167	—	16·700	—	—	—	10·34·60	—	—	—
14·45	16·996	—	16·820	—	—	—	10·25·30	—	—	—
15·00	16·960	17·34	17·010	35·830	83·0	81·5	10·13·30	83·9	-1·29·91	1·46·84
15·15	16·755	17·08	17·150	35·980	—	—	9·48·90	—	-1·30·05	1·46·74
15·30	16·653	16·92	17·380	36·180	—	—	9·42·50	—	-1·30·19	1·46·34
15·45	16·395	16·56	17·470	36·120	—	—	9·19·00	—	-1·30·33	1·46·43
16·00	15·328	16·04	17·440	36·200	83·6	81·5	9·14·30	83·9	-1·30·62	1·46·24
16·15	15·348	15·51	17·550	36·280	—	—	8·39·00	—	-1·31·34	1·46·48
16·30	14·936	15·19	17·650	36·360	—	—	8·33·90	—	-1·31·48	1·46·42
16·45	14·901	14·99	17·750	36·400	—	—	8·26·80	—	-1·31·48	1·46·07
17·00	14·249	14·62	17·800	36·410	84·0	82·4	8·2 ·50	84·0	-1·31·77	1·46·02
17·15	13·974	14·25	17·790	36·330	—	—	8·07·25	—	-1·31·91	1·46·16
17·30	13·596	13·94	17·817	35·340	—	—	7·48·00	—	-1·32·63	1·46·23
17·45	13·219	13·47	17·940	36·450	—	—	7·46·35	—	-1·32·78	1·46·00
18·00	12·537	13·05	17·900	36·450	85·0	82·4	7·34·80	84·5	-1·33·07	1·45 61
18·15	12·188	12·42	17·950	36·550	—	—	7·30·50	—	-1·33·21	1·45·40
18·30	11·879	12·16	18·200	36·490	—	—	7·37·70	—	-1·33·78	1·45·66
18·45	11·157	11·53	18·235	36·790	—	—	7·31·65	—	-1·34·22	1·45·38
19·00	11·157	11·59	17·800	35·790	85·0	83·8	8·01·80	85 0	-1·34·50	1·45·66
19·30	10·299	—	17·990	36·400	—	—	8·26·50	—	-1·35·50	1·45·80
20·00	10·744	11·07	17·605	35·800	86·0	84 6	9·15·10	85·5	-1·34·93	1·45·67
20·30	11·088	11·85	17·525	35·800	—	—	9·45·70	—	-1·34·35	1·45·45
21·00	11·569	12·11	17·420	35·650	86·6	86·0	10·19·50	85·2	-1·34·55	1·46·12
21·30	11·845	12·47	17·280	35·500	—	—	10·33·15	—	-1·34·07	1·45·92
22·00	12·084	12·78	17·440	35·800	87·0	84·4	10·34·45	87·2	-1·33·78	1·45·86
22·30	12·703	13·42	17·210	35·580	—	—	11·04·4	—	-1·33 21	1·45·91
23·00	13·081	13·68	17·162	35·650	87·3	85·0	11·04·45	87·8	-1·32·92	1·46·00
23·15	13·219	14·35	17·050	35·340	—	—	11·01·00	—	-1·32·78	1·46·00
23·30	14·042	14·67	16·510	34·890	—	—	11·27·10	—	-1·31·91	1·45·95
23·45	14·592	14·99	16·165	34·400	—	—	11·31·90	—	-1·31·77	1·46·36
April 21· 0·00	14·249	14·73	15·720	33 900	87·2	85·8	11·18·50	87·7	-1·31·91	1·46·16
0·15	14·008	14·78	15·340	33·410	—	—	11 17·35	—	-1·32 31	1·46·35
0·30	14·219	14 88	14·850	33·100	—	—	11·19·05	—	-1·32·06	1·46·31
0·45	14·592	15·19	14·585	32·600	—	—	11·25·20	—	-1·31·77	1·45·35
1·00	15·074	16·04	13·820	31·780	86·6	84·3	11·46·50	87·0	-1·31·63	1·46·70
1·15	15·623	16·04	13·345	31·400	—	—	12·05·70	—	-1·31·34	1·46·96
1·30	16·378	17·08	13·030	31·090	—	—	12·17·50	—	-1·31·19	1·47·57
1·45	16·789	17 43	13·190	31·200	—	—	12·16·70	—	-1·30·33	1·47·12
2·00	17·133	17·08	13·180	31·300	85·9	84·0	12·10·70	86·4	-1·30·62	1·47·75
2·15	16·172	16 53	13·675	31·980	—	—	11·23·90	—	-1·31·19	1·47·35
2·30	15·416	16·04	13·880	32·000	—	—	11· ·5·30	—	-1·31·34	1·46·76
2·45	15·435	16·04	13·870	32·020	—	—	11·12·90	—	-1·31·48	1·46·97
2·55	15·623	16·04	13·845	32·000	—	—	11·11·90	—	-1·31·48	1·47·10
3·30	15·553	16·04	14·000	32·200	85·3	84·0	11·14·60	87·0	-1·31·48	1·47·03
4·00	15·760	16·04	13·860	32·130	85·0	84·0	11·33·10	87·0	-1·31·48	1·47·24
4·30	15·450	16·04	14·000	32·400	85·0	84·0	11·21·75	—	-1·31·48	1·46·93
5·00	15·211	15·51	14·155	32·500	85·0	84·0	11·34·25	85·6	-1·31·48	1·46·69
5·30	15·314	16·04	14·250	32·550	84·9	83·6	11·34·25	85·5	-1·31·48	1·45·79
6·00	15·28·	15·51	15 250	33·800	84·8	83·2	11·17·75	86·5	-1·31·48	1·45·76

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
April 21. 6·30	15·280	15·51	15·090	33·600	84·8	83·2	11·31·15	86·5	−1·31·48	1·46·76
7·00	14·694	15·51	15·550	34·160	84·5	83·0	11·25·20	86·3	−1·31·48	1·46·17
7·30	15·211	15·51	15·290	33·800	84·5	82·6	12·05·70	86·0	−1·31·48	1·46·69
8·00	15·485	16·04	15·250	33·800	84·2	82·4	12·05·70	86·0	−1·31·48	1·46·97
8·30	15·928	16·04	15·350	33·980	84·0	82·5	12·05·70	86 0	−1·31·19	1·47·02
9·00	15·485	16·04	15·400	33·980	84·0	82·3	11·46·60	86·0	−1·31·19	1·46·67
9·30	15·553	16·04	15·580	34·180	84·0	82·0	12·05·40	85·9	−1·31·19	1·46·74
10·00	15·623	16·09	15·640	34·250	83·8	82·0	12·18·05	85·7	−1·31·34	1·46·96
May 7·20·00	13·013	13·00	15·400	31·610	—	87·0	9·22·45	87·5	−1·32·92	1·45·93
20·15	13·562	14·47	14·950	31·200	88·2	87·2	9·22·45	87·5	−1·32·92	1·46·48
20·30	13·906	14·99	14·600	30·850	88·5	87·8	9·14·00	88·0	−1·32·92	1·46·83
20·45	13·887	14·99	14·500	30·700	88·5	87·5	9·21·10	88·0	−1·32·92	1·46·84
21·00	14·042	14·99	14·542	30·810	88·5	87·9	9·21·10	88·0	−1·32·63	1·46·67
21·15	14·798	16·04	14·450	30·800	88·6	88·0	9·32·80	88·3	−1·31·77	1·46·57
21·30	15·280	16·56	14·110	30·200	88·8	88·4	9·41·95	88·6	−1·31·68	1·46·91
21·45	15·981	17·08	13·890	29·620	88·9	88·4	9·42·90	88·6	−1·31·19	1·47·12
22·00	16·309	17·48	13·550	29·700	89·0	88·4	9·49·50	89·2	−1·30·90	1·47·21
22·15	16·309	17·53	13·662	29·890	89·0	88·5	10·42·95	89·2	−1·30·90	1·47·21
22·30	16·515	17·60	13·565	29·730	89·1	88·5	11·12·30	89·3	−1·30·76	1·47·27
22·45	16·926	18·06	13·340	29·580	89·2	88·5	11·36·05	89·6	−1·30·33	1·47·26
23·00	16·653	18·01	13·400	29·610	89·1	88·4	11·05·80	89·7	−1·30·33	1·46·98
23·15	17·133	18·65	13·290	29·470	89·0	88·3	11·21·56	89·7	−1·29·76	1·46·89
23·30	17·819	18·59	13·190	29·420	89·0	88·2	11·36·75	89·7	−1·29·76	1·47·58
23·45	17·887	18·65	13·347	29·700	89·0	88·4	11·12·30	89·8	−1·29·47	1·47·36
May 8· 0·00	18·093	19·43	13·490	29·890	89·0	88·0	11·12·30	89·8	−1·28·90	1·46·99
0·15	19·056	19·75	13·500	29·920	—	88·0	11·24·60	89·8	−1·28·76	1·47·81
0·30	18·713	19·70	13·640	30·020	88·6	88·0	10·49·30	89·7	−1·28·90	1·47·61
0·45	18·025	18·75	13·590	30·075	88·5	87·8	10·30·20	89·5	−1·29·76	1·47·78
1·00	17·612	18·49	13·640	30·120	88·3	87·6	10·19·70	89·3	−1·30·05	1·47·66
1·15	17·064	17·96	13·570	30·130	88·0	87·0	10·10·50	89·0	−1·30·33	1·47·39
1·30	16·721	17·70	13·640	30·120	87·8	87·0	10·13·50	89·0	−1·30·47	1·47·19
1·45	16·447	17·53	13·630	30·220	87·4	86·5	10·13·50	88·8	−1·30·47	1·46·92
2·00	16·172	17·08	13·640	30·200	87·0	86·1	10·09·00	88·2	−1·30·90	1·47·07
2·15	15·553	16·56	13·450	30·100	86·9	86·0	9·44·50	87·8	−1·31·34	1·46·89
2·30	15·691	16·66	13·530	30·150	86·8	86·0	10·08·50	87·6	−1·31·34	1·47·08
2·45	15·485	16·56	13·600	30·300	86·6	85·7	10·08·50	87·5	−1·31·34	1·46·82
3·00	15·485	16·45	13·720	30·410	86·4	85·4	10·21·00	87·5	−1·31·48	1·46·96
3·15	15·074	16·04	14·010	30·700	86·2	85·0	10·21·00	86·9	−1·31·77	1·46·84
3·30	14·798	16·04	14·130	30·810	86·0	85·0	10·21·00	86·6	−1·31·77	1·46·57
3·45	14·523	15·56	14·200	30·980	86·0	84·5	10·21·00	86·5	−1·32·20	1·46·72
4·00	14·660	15·56	14·440	31·100	85·9	84·5	10·26·50	86·3	−1·32·34	1·47·00
4·30	14·867	16·04	14·800	31·490	85·8	84·0	10·28·55	86·0	−1·31·03	1·46·50
4·45	14·832	15·51	14·775	31·450	85·8	84·0	10·37·90	86·0	−1·31·91	1·46·74
5·00	14·249	15·51	15·300	32·150	85·8	84·0	10·23·60	86·0	−1·31·91	1·46·16
5·15	15·280	16·30	15·050	31·840	85·6	84·0	11·03·15	85·6	−1·31·68	1·46·91
5·30	14·936	16·04	15·400	32·250	85·4	84·0	10·28·70	85·5	−1·31·48	1·46·42
5·45	14·249	14·99	15·600	32·550	85·0	83·4	10·18·60	85·5	−1·32·40	1·46·74
6·00	14·249	15·51	15·450	32·350	55·2	83·4	10·18·60	85·5	−1·32·06	1·46·31
6·15	14·076	14·99	15·525	32·410	55·2	83·2	10·18·60	85·5	−1·32·49	1·46·57
6·30	14·111	14·99	15·420	32·450	85·2	83·0	10·18·60	85·8	−1·32·75	1·46·89
6·45	14·042	14·99	15·525	32·550	85·2	83·0	10·30·45	86·4	−1·32·78	1·46·82
7·00	14·076	14·99	15·550	32·650	85·2	82·8	10·30·45	86·5	−1·32·56	1·46·63
7·15	13·906	14 99	15·750	32·750	85·2	82·8	10·30·45	86·6	−1·32·63	1·46·54
7·30	13·906	14·99	15·700	32·720	85·2	82·6	10·30·45	87·0	−1·32·92	1·46·83
7·45	13·906	14·99	15·700	32·700	85·0	82·4	10·36·35	87·0	−1·32·63	1·46·54
8·00	13·902	14·99	15·717	32·750	85·0	82·2	10·36·35	87.0	−1·32·92	1·46·72
8·15	13·906	14·99	15·725	32·800	85.0	82·2	10·36·35	87·0	−1·32·92	1·46·83
8·30	13·871	14·78	15·885	32·800	85·0	82·4	10·36·35	87·2	−1·32·63	1·46·50

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time	5 min. after Full Time.	Full Time.
D. H. M.			Sca.	Sca.			t	d		
May 8. 8·45	13·700	14·99	15·927	32·900	85°0	82°4	10·39·10	87°2	-1°32'63	1°46'38
9·00	13·700	14·99	16·035	33·190	84·8	82·2	10·43·25	87·3	-1·32·49	1·46·19
9·15	13·819	14·99	16·180	33·200	84·7	82·2	10·45·30	87·2	-1·32·49	1·46·31
9·30	13·974	15·04	16·125	32·960	84·7	82·3	11·18·10	87·3	-1·32·49	1·46·46
9·45	14·249	15 09	15·975	32·940	84·7	82·4	11·18·10	87·2	-1·32·34	1·46·59
10·00	14·076	15·09	16·125	32·980	84·6	82·2	11·09·45	87·2	-1·32·20	1·46·27
10·15	14·317	15·09	16·140	33·000	84·4	82·2	12·18·25	87·0	-1·31·91	1·46·23
10·30	14·317	15·30	16·060	32·990	84·3	82·2	12·23·40	87·0	-1·32·06	1·46·38
10·45	14·213	15·35	16·125	33·000	84·3	82·0	12·20·10	87·0	-1·31·91	1·46·12
11·00	14·283	15·40	16·100	33·020	84·2	82·0	12·20·10	87·0	-1·31·77	1·46·05
11·15	14·111	15·35	16·222	33·080	84·1	81·6	12·20·10	87·0	-1·31·91	1·46·02
11·30	14·076	15·40	16·195	33·080	84·0	81·4	12·11·95	87·0	-1·32·20	1·46·10
11·45	14·145	15·40	16·250	33·070	84·0	81·3	12·11·95	86·8	-1·32·20	1·46·34
12·00	14·076	15·40	16·352	33·100	83·9	81·2	12·11·25	86·8	-1·32·06	1·46·14
12·15	14·213	15·45	16·087	33·140	83·9	81·1	12·15·60	86·9	-1·32·91	1·46·12
12·30	14·386	15·51	16·440	33·210	83·9	81·2	12·06·80	87·0	-1·32·06	1·46·45
12.45	14·351	15·51	16·450	33·240	83·9	81·2	12·06·80	87·0	-1·32·06	1·46·41
13·00	14·728	15·56	16·490	33·300	83·7	81·2	12·06·80	87·0	-1·31·77	1·46·50
13·15	14·798	15·92	16·550	33·340	83·6	81·0	12·24·10	87·0	-1·31·63	1·46·43
13·30	14·970	16·04	16·610	33·400	83·6	81·0	12·19·60	86·8	-1·31·48	1·46·45
13·45	15·142	16·14	16·716	33·500	83·6	81·0	12·01·20	85·7	-1·31·48	1·46·62
14·00	15·416	16·19	16·775	33·530	83·5	81·0	11·42·00	85.3	-1·31·48	1·46·80
14·15	15·280	16·45	16·840	33·580	83·6	81·2	11·42·00	85.0	-1·31·48	1·46·76
14·30	15·280	16·56	16·985	33·600	83·8	81·4	11·42·00	85·0	-1·31·48	1·46.76
14·45	15·587	16·66	16·965	33·610	84·0	81·6	11·42·00	84·9	-1·31·48	1·47·07
15·00	15·691	16·82	17·045	33·670	84·1	82·0	11·36·70	84·9	-1·31·48	1·47·17
15·15	15·897	16·87	17·130	33·720	84·2	82·0	11·36·70	85.0	-1·31·19	1·47·09
15·30	15·828	16.87	17·190	33·820	84·4	82·4	11·28·10	85·0	-1·31·19	1·47·02
15·45	15·628	16·66	17·320	33·910	84·8	82·6	11·17·50	85.1	-1·31·48	1·47·10
16·00	15·553	16·56	17·450	34·050	85·0	83·2	11·11·10	85.3	-1·31·48	1·47·03
16·15	15·348	16·50	17·500	34·080	85·1	83·3	11·11·10	85.4	-1·31·48	1·46·83
16·30	15·280	16·09	17·560	34·100	85·2	83·6	10·43·65	85.4	-1·31·48	1·46·76
16·45	14·936	16·04	17·600	34·150	85·8	84·0	10·29·35	85.5	-1·31·48	1·46·42
17·00	14·592	15·51	17·740	34·300	85·9	84·0	10·17·50	85.5	-1·31·91	1·46·50
17·15	14·025	14·99	17·750	34·360	86·0	84·2	10·06·90	85·9	-1·32·63	1·46·65
17·30	13·562	14·47	17·800	34·360	86·0	84·2	9·48·50	85·9	-1·32·92	1·46·48
17·45	12·876	13·99	17·860	34·415	86·0	84·8	9·44·90	86·0	-1·32·92	1·45·80
18·00	12·876	13·94	17·950	34·500	86·3	85·0	9·37·90	86·0	-1·33·14	1·46·02
18·15	12·601	13·42	18·000	34·510	86·8	85·8	9·33·00	86·3	-1·33·50	1·46·10
18·30	12·188	13·42	17·950	34·500	86·8	86·0	9·39·70	86·5	-1·33·93	1·46.12
18·45	12·188	13·16	17·950	34·490	87·0	86·0	9·39·70	86·5	-1·34·22	1·46·41
19·00	11·776	12·90	17·950	34·550	87·0	86·0	9·43·25	86·6	-1·34·22	1·46·00
19·15	11·501	12·37	17·855	34·450	87·0	86·0	9·37·55	86·6	-1·34·36	1·45·86
19·30	11·327	12·37	17·850	34·500	87·0	86·2	9·43·00	87·0	-1·34·36	1·45·69
19·45	11·327	12·37	17·750	34·300	87·0	86·8	9·48·50	87·0	-1·34·36	1·45·69
20·00	11·363	12·50	17·750	34·450	87·2	87·0	9·48·50	87·0	-1·34·36	1·45.72
20·15	11·845	12·90	17·610	34·200	87·2	87·0	10·20·00	87·0	-1·34·22	1·46.07
20·30	11·913	13·16	17·600	34·150	87·4	87·0	10·38·55	87.2	-1·33·93	1·45·84
20·45	12·188	13·42	17·590	34·290	87·4	87·2	10·23·60	87·4	-1·33·78	1·45.97
21·00	12·468	13·52	17·525	34·110	87·4	87·2	10·26·50	87·4	-1·33·50	1·45.96
21·15	12·584	13·88	17·490	34·030	87·4	87·2	10·26·50	87·4	-1·33·35	1·45·93
21·30	12·876	13·94	17·440	34·080	87·4	87·2	10·26·55	87·4	-1·33·21	1·46.09
21·45	13·081	14·20	17·367	33·950	87·5	87·3	10·28·55	87·5	-1·33·21	1·46·29
22·00	13·219	14·47	17·320	33·900	87·7	87·4	10·35·90	88·2	-1·32·92	1·46·14
23·00	14·249	15·45	17·025	33·600	87·9	87·4	10·40·90	88·8	-1·32·20	1 46·45
May 9. 00·00	14·728	15·97	16·870	33·500	87·6	86·8	10·48·75	89·0	-1·32·77	1·46·50
May 14·22·15	11·298	12·31	17·400	33·210	88·0	87·2	9·26·20	85·5	-1·35·79	1·47·08
22·30	11·501	12·37	17·220	33·090	88·0	87·2	9·34·85	88·7	-1·35·64	1·47·14
22·45	11·431	12·37	17·200	33·090	88·0	87·2	9·38·40	88·7	-1·35·50	1·46·93

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
May 14·23·00	11·501	12·42	17·115	33·010	87·9	87·2	10·03·70	88·7	−1°35′50	1°47′00
23·15	11·776	12·90	17·050	32·950	87·9	87·2	10·10·30	88·7	−1·35·36	1·47·14
23·30	12·326	13·47	16·880	32·740	87·8	87·1	10·21·45	88·6	−1·34·64	1·46·97
23·45	12·394	13·31	16·845	32·730	87·8	86·8	10·21·45	88·6	−1·34·64	1·47·03
May 15·0·00	12·538	13·42	16·740	32·660	87·6	86·8	10·25·05	88·6	−1·34·64	1·47·17
0·15	12·394	13·42	16·760	32·695	87·5	86·8	10·19·70	88·6	−1·34·64	1·47·03
0·30	12·806	13·83	16·650	32·650	87·5	87·0	10·36·00	88·4	−1·34·36	1·47·17
0·45	13·013	13·94	16·570	32·510	87·2	86·2	10·30·00	88·2	−1·34·36	1·47·37
1·00	13·219	14·04	16·590	32·600	87·0	86·0	10·36·00	88·0	−1·34·22	1·47·44
1·15	13·287	14·47	16·430	32·470	86·9	85·9	10·36·00	87·7	−1·33·93	1·47·22
1·30	13·219	14.14	16·390	32·480	86·6	85·6	10·36·50	87·5	−1·34·07	1·47·29
1·45	13·081	13·94	16·460	32·550	86·4	85·0	10·19·00	87·2	−1·34·22	1·47·30
2·00	12·738	13·68	16·490	32·640	86·2	84·8	10·10·00	86·9	−1·34·38	1·47·12
2·15	12·463	13·42	16·500	32·800	86·0	84·8	10·05·00	87·0	−1·34·50	1·46·96
2·30	12·256	13·16	16·420	32·720	85·9	84·2	10·05·00	87·3	−1·34·64	1·46·90
2·45	11·913	12·90	16·510	32·850	85·8	84·0	9·43·50	87·5	−1·34·78	1·36·69
3·00	11·981	12·90	16·530	32·830	85·5	84·0	9·43·50	87·5	−1·34·93	1·36·91
3·15	12·944	13·47	16·270	32·500	85·5	84·0	10·36·50	87·6	−1·34·60	1·37·54
3·30	13·013	14·04	16·360	32·570	85·5	83·8	10·25·00	87·7	−1·31·22	1·37·23
3·45	13·700	14·47	16·160	32·400	85·3	84·0	10·49·00	87·8	−1·33·93	1·37·63
4·00	13·768	14·47	16·110	32·310	85·3	83·8	10·41·00	87·8	−1·33·98	1·37·70
4·15	13·974	14·99	16·100	32·200	85·3	83·8	10·39·50	87·8	−1·33·50	1·37·47
4·30	14·660	15.51	15·900	32·000	85·0	83·0	11·05·50	88·0	−1·32·92	1·37·58
4·45	14·488	15.51	15·900	31·850	85·0	83·0	10·43·70	88·0	−1·32·92	1·37·41
5·00	14·420	15·51	15·750	31·800	85·0	82·8	10·43·70	87·6	−1·32·92	1·37·34
5·15	14·762	15·56	15·795	31·700	85·0	82·8	10·43·70	87·6	−1·32·92	1·37·68
5·30	14·660	15·51	15·800	31·850	85·0	82·6	10·43·70	87·5	−1·32·92	1·38·58
5·45	14·677	15.51	15·810	31·900	85·0	82·4	10·43·70	87·5	−1·32·92	1·37·60
6·00	15·280	15·51	15·850	32·000	85·0	82·4	10·10·25	87 5	−1·32·92	1·37·20
6·15	14·970	16·04	16·025	32·190	85·0	82·2	10·10·25	87.5	−1·32·92	1·47·69
6·30	14·936	16·04	16·125	32·200	85·0	82·2	10·34·55	87·5	−1·32·92	1·47·86
6·45	14·798	16·04	16·175	32·200	85·0	82·2	10·24·50	87·5	−1·32·92	1·37·72
7·00	14·592	15·97	16·200	32·300	84·8	81·2	10·24·50	87·5	−1·32·92	1·47·51
7·15	14·798	15·51	16·375	32·500	84·8	82·2	10·14·50	87·5	−1·32·92	1·47·72
7·30	14·249	15.51	16·700	32·850	84·8	82·2	10·14·50	87·5	−1·32·92	1·47·17
7·45	14·283	14·99	16·750	33·000	84·8	82·0	10·14·50	87·5	−1·32·92	1·47·20
8·00	14·249	14·99	16·925	33·150	84·7	82·0	10 09·75	87·4	−1·33·07	1·47·32
8·15	14·042	15·51	16·990	33·200	84·6	82·0	10·18·05	87·3	−1·32.92	1·47·96
8·30	14·111	15.09	16·885	33·050	84·4	82·2	10·18·05	87·3	−1·33·21	1·47·32
8·45	14·179	15·14	16·890	33·090	84·4	82·3	10·16·05	87·3	−1·33·21	1·47·39
9·00	14·283	15.51	17·095	33·220	84·4	82·1	10·26·70	87·2	−1·32·92	1·47·20
9·15	14·454	15·51	17·132	33·390	84·3	82·2	10·34·35	87·2	−1·32·63	1·47·08
9·30	14·454	15.51	17·365	33·490	84·3	82·2	10·30·60	87·2	−1·32·78	1·47·23
9·45	14·454	15·51	17·340	33·560	84·3	82·1	11·05·00	87·2	−1·32·78	1·47·23
10·00	14·317	15·51	17·425	33·590	84·2	82·0	11·14·25	86·7	−1·32·78	1·47·10
10·15	14·454	15·51	17·550	33·790	84·2	82·0	11·39·75	85·5	−1·31·19	1·47·78
10·30	14·454	15·56	17·275	33·500	84·2	81·6	12·03·25	85·4	−1·31·48	1·47·89
10·45	14·540	15·56	17·400	33·680	84·2	81·6	12·03·25	85·3	−1·31·34	1·47·56
11·00	14·779	15·77	17·427	33·600	84·1	81·6	11·47·35	85·2	−1·31·19	1·48·25
11·15	14·557	15·51	17·560	33·780	84·0	81·6	11·38·10	85·0	−1·30·76	1·47·89
11·30	14·592	15·51	17·610	33·880	84·0	81·6	12·08·90	85·0	−1·38·33	1·48·15
11·45	14·643	15·56	17·740	33·900	84·0	81·6	12·08·90	85·2	−1·31·48	1·48·41
12·00	14·574	15·51	17·750	33·960	84·1	81·6	12·12·00	85·3	−1·31·19	1·48·22
12·15	14·540	15·51	17·795	34·000	84·2	81·6	12·12·00	85·4	−1·31·05	1·48·11
13·00	14·660	15·61	17·460	33·710	84·0	81·6	12·41·90	85·5	−1·31·63	1·47·94
13·15	15·074	16·04	17·515	33·700	84·0	81·6	12·41·90	85·8	−1·31·91	1·47·67
13·30	15·485	16·56	17·510	33·400	84·0	81·6	13·05·00	86·9	−1·32·85	1·47·96
13·45	16·584	17·60	17·410	33·340	83·9	81·6	13·05·00	85·5	−1·31.19	1·47·78
14·00	16·412	17·18	17·300	33·120	83·9	81·6	12·42·90	85·4	−1·31·48	1·47·89
14·15	16·515	17·60	17·115	33·080	84·0	81·6	12·28·00	85·3	−1·31·34	1·47·85
14·30	17·064	17·70	17·660	33·600	84·0	81·8	12·28·00	85·2	−1.31.19	1·48·25

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5 min. after Full Time.	Full Time.
			Scn.	Scn.			t	d		
h. m. s.										
May 15 14 45	17·133	18·13	17·620	33·510	84°0	82°0	12·14·40	85°0	−1°30·76	1°47·89
15 00	17·819	18·28	17·760	33·690	84·3	82·0	12·14·40	85·0	−1·30·33	1·48·15
15 15	16·960	17·70	17·110	33·800	84·6	82·4	12·14·40	85·2	−1·31·48	1·48·44
15 30	17·030	18·01	17·305	33·000	85·0	82·8	11·36·70	85·3	−1·31·19	1·48·22
15 45	17·064	18·01	17·790	33·460	85·1	83·0	11·05·80	85·4	−1·31·05	1·48·11
16 00	16·309	17·08	17·840	33·440	85·6	83·4	10·43·40	85·5	−1·31·63	1·47·94
16 15	15·760	16·56	17·730	33·400	85·9	83·6	10·22·40	85·8	−1·31·91	1·47·67
16 30	15·108	15·77	18·200	34·200	86·0	84·0	10·02·90	86·0	−1·32·65	1·47·96
16 45	13·906	14 47	18·700	34·600	86·5	84·0	9·11·40	86·0	−1·33·78	1·47·69
17 00	13·219	13·94	18·775	34·700	86·8	84·0	9·08·90	86·0	−1·34·14	1·47·36
17 15	12·533	13·47	19·100	34·990	86·8	84·0	9·16·05	86·0	−1·34·36	1·46·89
17 30	12·806	13·47	18·575	34·400	86·9	84·4	9·31·70	86·2	−1·34·36	1·47·17
17 45	12·738	13·42	18·150	33·900	87·0	85·0	10·06·00	86·5	−1·34·36	1·47·10
18 00	12·538	13·42	17·850	33·450	87·0	85·6	10·06·00	86·5	−1·34·50	1·47·03
18 15	12·222	13·16	18·000	33·600	87·0	85·8	9·22·00	86·5	−1·35·21	1·47·43
18 30	11·879	12·90	17·650	33·250	87·0	86·0	9·47·50	86·5	−1·35·36	1·47·24
18 45	11·845	12·37	17·450	33·060	87·0	86·0	9·21·50	86·5	−1·35·65	1·47·50
19 00	11·501	12·37	17·600	33·100	87·2	86·2	8·45·75	87·0	−1·35·65	1·47·15
19 15	12·015	13·42	16·700	32·500	87·5	86·2	9·45·25	87·0	−1·35·07	1·47·08
19 30	12·119	13·16	16·350	31·620	87·7	86·4	10·10·50	87·0	−1·35·50	1·47·62
19 45	12·533	13·42	15·600	30·800	87·8	87·0	10·32·70	87·5	−1·35·22	1·47·74
20 00	12·256	13·42	15·675	30·805	87·9	87·2	10·22·75	87·5	−1·35·65	1·47·91
20 15	12·533	13·94	15·300	30·450	88·0	87·6	10·34·25	87·5	−1·34·78	1·47·31
20 30	12·601	13·88	15·230	30·320	88·0	87·6	10·40·50	87·7	−1·34·64	1·47·24
20 45	12·738	13·88	14·765	29·890	88·2	88·0	11·17·45	87·8	−1·34·64	1·47·38
21 00	12·738	13·83	14·470	29·600	88·2	88·0	11·17·45	88·0	−1·34·78	1·47·52
21 15	12·876	13 99	14·665	29·960	88·4	88·0	11·23·50	88·2	−1·34·64	1·47·52
21 30	12·944	14·04	14·325	29·300	88·4	88·0	11·42·80	88·5	−1·34·64	1·47·58
21 45	13·184	14·47	13·840	28·840	88·5	88·0	12·23·05	88·7	−1·31·36	1·47·54
22 00	13·837	14·99	13·550	28·500	88·6	88·0	12·34·30	88·8	−1·33·93	1·47·77
22 15	13·837	14·99	13·240	28·280	88·7	88·0	12·34·30	89·2	−1·34·07	1·47·91
22 30	14·076	15·45	13·270	28·400	88·8	88·2	12·31·70	89·2	−1·33·78	1·47·86
22 45	15·467	17·08	12·895	27·800	88·8	88·2	13·37·20	89·4	−1·32·34	1·47·81
23 00	17·252	18·33	12·765	27·750	88·8	88·2	14·22·00	89·5	−1·31·19	1·48·44
23 15	17·407	18·33	12·727	27·740	88·9	88·2	14·02·10	89 5	−1·31·19	1·48·60
23 30	17·682	18·65	12·675	27·790	88·8	88·1	13·40·65	89·6	−1·30·62	1·48·30
23 45	17·716	18·65	12·650	27·730	88·7	88·0	13·29·40	89·7	−1·30·90	1·48·62
May 16 00 00	16·721	17·80	12·547	27·790	88·6	88·0	13·06·50	89·6	−1·31·34	1·48·06
0 15	17·064	18·01	12·700	27·920	88·5	87·6	13·09·20	89·6	−1·31·48	1·48·54
0 30	16·309	17·08	12·490	27·710	88·3	87·6	12·37·70	89·5	−1·32·06	1·48·37
0 45	16·102	16·76	12·670	27·940	88·0	87·4	12·24·70	89·5	−1·32·34	1·48·44
1 00	15·623	16·56	12·780	28·090	88·0	87·2	12·24·70	89·3	−1·32·53	1·48·25
1 15	15·416	16·24	12·750	28·100	88·0	87·2	12·24·70	89·0	−1·32·78	1·48·20
1 30	14·728	15·51	12·750	28·100	87·8	87·0	12·10·50	88·8	−1·33·21	1·47·94
1 45	14·249	15·87	12·360	27·800	87·6	86·4	12·02·70	88·5	−1·33·07	1·47·22
2 00	15·211	16·14	12·680	28·300	87·2	86·0	12·23·70	88·3	−1·32·92	1·48·13
2 15	14·317	15·51	13·150	28·920	87·0	85·8	12·03·00	87·9	−1·33·07	1·47·39
2 30	13·287	14·40	13·410	29·100	87·0	85·6	11·47·60	88·0	−1·34·22	1·47·51
2 45	13·425	14·35	13·110	28·920	86·8	85·2	11·46·60	88·3	−1·34·36	1·47·79
3 00	13·219	14·47	13·380	29·200	86·7	85·2	11·46·60	88·4	−1·34·22	1·47·44
3 15	13·287	14·25	13·820	29·840	86·4	84·8	13·06·70	88·4	−1·34·36	1·47·65
3 30	12·538	13·52	13·990	29·890	86·4	84·4	13·06·70	88·4	−1·34·71	1·47·24
3 45	13·150	14·04	14·165	30·100	86·1	84·1	13·30·70	88·4	−1·34·36	1·47·51
4 00	13·399	14·47	14·550	30·500	86·0	84·0	13·39·60	88·3	−1·34·22	1·47·51
4 15	13·871	14·99	14·775	30·600	86·0	84·0	13·39·60	88·0	−1·34·22	1·48·09
4 30	13·734	14·99	14·800	30·700	86·0	84·0	13·03·10	88·0	−1·34·22	1·47·95
4 45	13·906	14·99	15·000	30·850	86·0	84·0	13·03·10	88·0	−1·33·64	1·47·55
5 00	13·906	14·99	16·075	31·300	86·0	83·8	13·03·10	87·5	−1·34·22	1·48·13
5 15	13·768	14·99	15·100	31·050	85·8	83·8	13·03·10	87·5	−1·33·64	1·47·41
5 30	14·179	14·99	15·300	31·150	85·0	83·6	13·03·10	87·5	−1·34·00	1·48·18
5 45	13·734	14·99	14·975	30·750	85·5	83·4	13·31·75	87·5	−1·34·07	1·47·80

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	2 min. after Full Time.	Full Time.
D. H. M.			Sca.	Sca.			d			
May 16 6·00	15·558	17·08	14·650	30·500	85°5	83°4	14·25·90	87°5	−1°32′20	1°47′75
6·15	16·395	17·60	14·660	30·500	85·5	83·2	14·25·90	87·5	−1·31·48	1.47·88
6·30	16·309	16·56	14·950	30·710	85·5	83·2	14·11·50	87·5	−1·32·20	1·48·51
6·45	15·691	16·56	15·050	30·850	85·4	83·0	13·30·00	87·5	−1·32·92	1.48·61
7·00	15·966	16·56	15·490	31·350	85·2	83·0	13·30·00	87·5	−1·32·49	1·48·61
7·15	15·966	16·82	15·700	31·615	85·2	83·0	13·30·00	87·5	−1·32·49	1·48·46
7·30	15·657	16·56	15·700	31·700	85·2	82·6	13·43·20	87·5	−1·32·78	1·48·44
7·45	15·623	16·30	15·755	31·750	85·0	82·6	13·43·20	87·5	−1·32·92	1·48·54
8·00	14·970	16·04	15·700	31·600	85·0	82·2	13·37·00	87·5	−1·32·92	1·47·89
8·15	15·250	16·04	15·705	31·660	85·0	82·2	13·37·00	87·0	−1·32·92	1.48·20
8·30	14·901	16·04	15·832	31·660	85·0	82·3	13·37·00	87·0	−1·32·92	1·47·82
8·45	15·021	15·97	15·817	31·700	85·0	82·4	13·44·05	87·0	−1·32·92	1·47·94
9·00	14·454	15·97	17·002	32·900	84·9	82·4	13·40·15	86·8	−1·32·92	1·47·37
9·15	15·176	16·35	16·040	32·260	84·8	82·4	15·05·25	86·7	−1·32·63	1.47·81
9·30	15·142	16·14	15·495	32·180	84·7	82·2	15·05·25	86·7	−1·32·63	1.47·77
9·45	14·936	16·04	16·225	32·180	84·7	82·2	14·46·75	86·6	−1·32·78	1.47·72
10·00	15·245	15·24	15·980	31·700	84·7	82·2	14·48·25	86·6	−1·32·49	1·47·73
10·15	15·570	16·45	15·985	31·800	84·7	82·1	15·19·00	86·6	−1·32·63	1·48·20
10·30	15·108	16·04	15·990	31·720	84·6	82·0	14·35·70	86·6	−1·32·63	1·47·74
10·46	15·074	16·04	15·902	31·790	84·5	81·9	14·30·30	86·6	−1·32·63	1·47·70
11·00	14·351	15·25	15·970	31·890	84·3	81·6	14·17·80	86·6	−1·33·21	1·47·56
11·15	14·283	15·09	16·280	32·120	84·3	81·6	14·06·65	86·7	−1·33·35	1.47·63
11·30	14·728	15·97	16·005	31·800	84·2	81·6	14·23·65	86·7	−1·32·92	1·47·65
11·45	14·832	15·51	15·930	31·700	84·3	81·6	14·40·80	86·7	−1·33·21	1·48·04
12·00	14·111	15·51	15·965	31·700	84·2	81·5	15·09·00	86·7	−1·33·21	1·47·32
12·15	14·762	15·51	15·985	31·680	84·2	81·3	15·00·80	86·7	−1·33·21	1·47·97
12·30	14·592	15·51	16·180	31·900	84·0	81·2	14·35·50	86·5	−1·33·21	1·47·80
12·45	14·728	15·51	16·135	31·910	84·0	81·4	14·44·30	86·5	−1·33·21	1·47·94
13·00	15·245	16·04	16·120	31·950	84·0	81·4	15·08·30	86·5	−1·32·92	1·48·17
13·15	15·416	16·56	16·350	32·040	84·0	81·4	15·08·30	86·5	−1·32·78	1·48·20
13·30	15·760	16·56	16·480	32·200	84·0	81·6	15·08·30	86·3	−1·32·49	1·48·25
13·45	15·828	16·61	16·570	32·340	84·0	81·6	15·08·30	85·8	−1·32·34	1·48·17
14·00	15·485	16·50	16·595	32·340	84·0	81·6	14·31·80	85·5	−1·32·63	1·48·12
14·15	15·691	—	16·510	—	—	—	14·31·80	—	—	—
14·30	16·034	—	16·470	—	—	—	14·31·80	—	—	—
14·45	16·309	—	16·675	—	—	—	14·21·80	—	—	—
15·00	16·515	17·43	16·750	32·470	84·8	81·9	14·24·80	85·4	−1·31·77	1·48·28
15·15	16·447	17·39	16·990	32·700	—	—	14·17·30	—	−1·31·63	1·48·08
15·30	16·378	17·13	17·135	32·800	—	—	14·03·00	—	−1·31·77	1·48·15
15·45	16·309	17·13	17·300	32·950	—	—	13·33·70	—	−1·31·77	1·48·08
16·00	16·172	16·97	17·300	32·900	85·9	82·4	13·23·00	85·8	−1·31·91	1·48·08
16·15	15·760	16·76	17·382	32·900	—	—	13·02·40	—	−1·32·34	1·48·10
16·30	15·628	16·56	17·500	32·980	86·5	—	12·28·90	86·0	−1·32·49	1·48·11
16·45	15·553	16·24	17·600	33·060	87·0	—	12·12·75	86·5	−1·32·63	1·48·18
17·00	15·348	16·04	17·700	33·250	87·0	83·8	11·42·75	86·5	−1·32·78	1·48·13
17·15	15·211	15·82	17·700	33·340	87·0	—	11·34·25	86·5	−1·32·72	1·47·99
17·30	14·936	15·61	17·850	33·430	87·0	—	11·18·75	86·5	−1·32·92	1·47·88
17·45	14·592	15·19	17·950	33·550	87·3	—	11·18·75	86·6	−1·33·21	1·47·80
18.00	14·249	14·99	17·950	33·430	87·0	85·7	11·13·60	87·0	−1·33·50	1·47·75
18·15	13·906	14·62	17·950	33·500	87·0	—	11·01·75	87·0	−1·33·93	1·47·84
18·30	13·562	14·40	17·910	33.410	87·5	—	11·11·85	87·0	−1·34·22	1·47·78
18·45	13·253	14·09	17·850	33·290	87·5	....	11·21·00	87·0	−1·34·36	1·47·61
19·00	13·150	13·94	17·800	33·320	87·6	86·0	11·29·50	87·0	−1·34·50	1·47·65
19·15	13·093	13·68	17·700	33·300	87·7	86·4	11·29·50	87·4	−1·34·36	1·47·46
19·30	12·703	13·42	17·750	33·300	87·7	86·8	11·44·30	87·5	−1·34·93	1·47·53
19·45	12·601	—	17·750	33·250	88·0	87·0	12·08·00	87·5	−1·34·93	1·47·53
20·00	12·326	13·42	17·750	33·250	88·0	87·2	12·10·20	87·5	−1·34·93	1·47·26
20·15	12·533	13·42	17·750	33·250	88·0	87·2	12·19·00	87·9	−1·34·93	1·47·46
20·30	12·533	13·42	17·650	33·100	88·0	87·8	12·28·00	88·0	−1·35·07	1·47·60
20·45	12·669	13·52	17·545	33·020	88·0	88·0	12·32·60	88·1	−1·35·07	1·47·74
21·00	12·635	13·52	17·495	33·930	88·2	88·0	12·32·60	88·2	−1·34·78	1·47·47

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	3½ min. after Full Time.	Full Time.
D. H. M.			Sca.	Sca.			t d			
May 16·21·15	12·738	13·83	17·295	32·790	88°4	88°0	12·38,00	88°4	-1°34·78	1°47·12
21·30	12·533	13·26	17·470	33·095	88·4	88·0	12·35·25	88·7	-1·35·21	1·47·74
21·45	12·533	13·42	17·330	32·910	88·4	88·1	12·40·10	88·7	-1·35·21	1·47·74
22·00	12·273	13·26	17·240	32·880	88·6	88·5	12·44·40	88·8	-1·35·21	1·47·48
22·15	12·533	13·52	17·100	32·460	88·7	88·4	13·02·25	89·2	-1·34·93	1·47·46
22·30	12·840	13·94	16·700	32·340	88·6	88·2	13·17·55	89·2	-1·34·64	1·47·88
22·45	12·944	13·94	16·675	32·300	88·5	88·0	13·17·55	89·3	-1·34·64	1·47·58
23·00	13·150	14·20	16·660	32·300	88·5	87·8	13·23·60	89·4	-1·34·50	1·47·65
23·15	13·355	14·40	16·600	32·270	88·5	—	13·35·90	89·5	-1·34·36	1·47·75
23·30	13·734	14·78	16·515	32·250	88·4	—	13·45·80	89·5	-1·34·22	1·48·06
23·45	13·906	14·99	16·530	32·320	88·2	—	14·03·35	89·5	-1·34·07	1·47·98
May 17·00·00	14·008	14·99	16·600	32·360	88·2	86·4	14·03·35	89·5	-1·33·93	1·47·94
Aug. 4 16·00	16·515	17·60	17·590	26·800	81·9	79·6	-3·33·20	82·0	-1·30·33	1·46·85
16·15	16·996	17·48	17·400	26·700	82·0	80·0	-3·33·20	82·0	-1·30·76	1·47·76
16·30	15·897	16·56	17·950	27·390	82·2	80·0	-4·40·10	82·0	-1·31·19	1·47·08
16·45	15·280	16·30	17·950	27·350	82·2	80·0	-4·22·50	82·0	-1·31·48	1·47·76
17·00	15·966	17·05	17·750	26·900	82·2	80·0	-4·11·10	82·0	-1·31·48	1·47·44
17·15	15·691	16·56	17·300	26·600	82·5	80·0	-4·01·60	82·0	-1·31·48	1·47·17
17·30	15·460	16·56	17·300	26·500	83·0	80·0	-3·08·05	82·5	-1·31·48	1·46·94
17·45	15·108	16·04	17·200	26·500	83·0	80·2	-3·21·75	82·5	-1·32·20	1·47·30
18·00	14·936	16·04	17·450	26·700	83·3	80·8	-4·08·25	82·8	-1·32·49	1·47·43
18·15	14·762	15·51	17·350	26·650	83·5	81·0	-4·16·65	83·0	-1·32·85	1·47·61
18·30	14·523	14·99	17·150	26·450	83·5	80·8	-3·22·60	83·0	-1·32·92	1·47·44
18·45	13·562	14·47	17·450	26·850	83·0	80·6	-4·23·30	83·0	-1·33·50	1·47·06
19·00	13·906	14·99	17·300	26·600	83·0	80·8	-3·19·50	83·0	-1·33·07	1·46·90
19·15	13·219	—	17·750	27·050	83·5	81·0	-3·43·35	83·2	-1·34·36	1·47·58
19·30	13·219	14·52	17·450	26·800	83·9	81·2	-2·45·90	83·5	-1·34·07	1·47·29
19·45	13·630	14·52	17·400	26·800	83·9	81·2	-3·08·20	83·5	-1·33·64	1·47·27
20·00	13·734	14·93	17·490	27·000	83·9	81·2	-2·34·55	83·5	-1·32·92	1·46·65
20·15	13·562	13·94	17·350	26·950	83·9	81·0	-2·32·00	83·5	-1·34·22	1·47·78
20·30	12·738	13·52	17·470	27·060	83·5	81·0	-3·25·00	83·5	-1·34·36	1·47·10
20·45	12·738	13·83	17·485	27·000	83·5	81·0	-3·28·60	83·5	-1·34·07	1·46·81
21·00	13·081	14·30	17·240	26·800	83·0	80·4	-2·46·50	83·2	-1·33·78	1·46·86
21·15	13·372	13·99	17·350	26·990	83·0	80·6	-3·03·20	82·8	-1·33·93	1·47·30
21·30	13·355	13·99	17·540	27·100	83·0	80·5	-3·19·05	82·8	-1·33·93	1·47·28
21·45	13·184	13·62	17·650	27·190	83·0	80·5	-3·38·25	82·8	-1·34·36	1·47·54
22·00	12·738	13·42	17·735	27·225	82·9	80·5	-4·08·30	82·8	-1·34·64	1·47·38
22·15	12·533	13·00	17·580	27·040	82·9	80·5	-4·21·45	82·7	-1·34·78	1·47·31
22·30	12·188	12·90	17·560	27·040	82·9	80·6	-4·37·50	82·7	-1·34·93	1·47·22
22·45	12·168	12·90	17·550	26·980	82·9	80·6	-4·37·50	82·7	-1·34·93	1·47·22
23·00	12·188	12·90	17·400	26·800	82·7	80·5	-4·43·30	82·7	-1·34·93	1·47·12
23·15	12·394	13·00	17·340	26·720	82·8	80·5	-4·37·20	82·6	-1·34·78	1·47·17
23·30	12·533	13·16	17·260	26·750	82·8	80·5	-4·31·90	82·6	-1·34·64	1·47·17
23·45	12·601	13·42	17·170	26·560	82·5	80·5	-4·20·50	82·7	-1·34·50	1·47·10
Aug. 5. 0·00	12·876	13·68	17·050	26·440	82·5	80·5	-4·09·90	82·6	-1·32·36	1·47·26
0·15	12·876	13·52	17·110	26·500	82·5	80·5	-4·03·20	82·6	-1·34·36	1·47·24
0·30	13·081	13·94	17·250	26·600	82·2	80·4	-3·46·58	82·5	-1·34·36	1·47·44
Sept. 13· 5·00	14·660	15·51	16·350	22·800	82·6	80·0	0·49·65	85·4		
5·15	14·798	15·51	16·300	22·780	82·6	80·0	1·12·95	85·4		
5·30	14·592	14·99	16·450	22·900	82·5	80·0	1·12·95	85·3		
5·45	15·211	16·04	16·750	23·150	82·5	80·0	1·47·55	85·3		
6·00	15·348	16·04	16·710	23·140	82·5	80·0	1·47·55	85·3		
6·15	14·626	15·51	16·450	23·100	82·4	80·0	1·30·35	85·3		
6·30	14·626	15·51	16·615	23·040	82·3	80·0	1·30·35	85·3		
6·45	14·626	15·51	16·500	22·900	82·2	80·0	1·30·35	85·0		
7·00	14·592	15·51	16·590	23·000	82·2	80·0	1·30·35	85·0		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
SEPT. 13. 7·15	14·523	15·51	16·640	23·000	82°0	80°0	1·30·35	85°0		
7·30	14·042	14·99	16·800	23·200	82·0	80·0	1·16·70	85·0		
7·45	14·042	14·99	16·800	23·200	82·0	80·0	1·16·70	85·0		
8·00	14·488	14·99	16·900	23·400	82·0	79·6	1·16·70	85·0		
8·15	14·042	14·47	17·560	24·300	82·0	79·6	1·16·70	84·7		
8·30	13·976	14·47	17·652	24·390	81·8	79·2	1·30·30	84·6		
8·45	14·076	14·57	17·660	24·400	81·6	78·6	1·40·85	84·5		
9·00	13·562	13·99	17·850	24·580	81·6	79·0	1·35·70	84·3		
9·15	13·237	13·94	17·870	24·550	81·5	78·8	1·35·70	84·2		
9·30	13·425	14·04	17·820	24·410	81·4	78·8	1·43·60	84·0		
9·45	13·802	14·47	17·800	24·390	81·4	78·6	1·43·60	84·2		
10·00	13·906	14·52	17·810	24·400	81·6	78·8	1·40·00	84·2		
10·15	13·940	14·47	17·800	24·440	81·6	78·7	1·39·40	84·2		
10·30	13·906	14·57	17·920	24·560	81·6	78·6	1·42·70	84·3		
10·45	13·906	14·57	18·015	24·510	81·7	78·7	1·41·00	84·5		
11·00	14·111	14·93	18·070	24·640	81·6	78·7	2·05·55	84·5		
11·15	14·179	14·88	17·970	24·620	81·6	78·8	2·19·50	84·5		
11·30	14·179	14·99	17·920	24·550	81·4	78·5	2·19·50	84·6		
11·45	14·249	14·99	17·860	24·510	81·2	78·5	2·21·00	84·4		
12·00	14·317	14·99	17·970	24·600	81·2	78·5	2·07·05	84·3		
12·15	14·523	14·99	18·190	24·900	81·0	78·4	2·07·05	84·4		
12·30	14·454	15·09	18·100	24·720	81·0	78·4	2·19·10	84·4		
12·45	14·798	15·51	18·000	24·600	81·0	78·4	2·32·50	84·4		
13·00	14·867	15·61	18·050	24·580	81·0	78·4	2·32·50	84·3		
13·15	15·004	16·04	18·100	24·600	81·0	78·4	3·00·50	84·3		
13·30	15·485	16·56	18·170	24·540	81·0	78·4	3·18·30	84·3		
13·45	16·034	17·02	18·180	24·540	81·0	78·4	3·42·20	84·3		
14·00	16·721	17·60	18·310	24·780	81·0	78·4	4·07·30	83·5		
SEPT. 24. 0·00	14·936	16·09	17·360	22·490	85·0	81·7	4·23·90	85·0		
0·05	14·936	16·04	17·390	22·500	—	—	4·23·90	—		
0·10	14·694	15·97	17·350	22·520	—	—	4·05·60	—		
0·15	14·660	15·82	17·310	22·440	—	—	4·05·60	—		
0·20	14·523	15·87	17·195	22·400	—	—	3·46·10	—		
0·25	13·630	15·45	18·540	24·100	—	—	1·27·90	—		
0·30	14·849	16·04	17·930	23·455	—	—	3·13·90	—		
0·35	16·172	17·34	17·835	22·970	—	—	5·27·30	—		
0·40	17·682	18·91	17·000	21·940	—	—	6·36·30	—		
0·45	17·819	19·19	16·255	21·200	—	—	7·25·50	—		
0·50	16·299	19·70	15·600	20·550	—	—	7·25·50	—		
0·55	19·262	20·53	14·880	19·340	—	—	7·25·50	—		
1·00	19·743	21·27	13·940	18·560	84·1	81·3	8·17·00	84·5		
1·05	21·046	22·31	13·115	17·300	—	—	8·47·30	—		
1·10	21·803	23·09	12·500	16·860	—	—	9·23·00	—		
1·15	22·524	23·53	11·780	16·190	—	—	9·17·30	—		
1·20	24·206	25·24	11·500	15·735	—	—	9·42·60	—		
1·25	25·581	26·96	11·315	15·480	—	—	10·16·80	—		
1·30	26·270	27·54	11·440	15·180	—	—	10·19·00	—		
1·35	26·338	27·54	10·240	14·250	—	—	11·06·60	—		
1·40	25·443	26·53	10·175	14·470	—	—	9·40·80	—		
1·45	23·520	25 13	10·425	14·500	—	—	6·26·20	—		
1·50	22·833	23·98	10·395	14·540	—	—	5·04·70	—		
1·55	21·733	23·09	11·060	15·670	—	—	4·40·40	—		
2·00	21·459	22·25	11·190	15·500	83·6	80·1	3·36·50	84·9		
2·05	21·116	22·31	11·200	15·350	—	—	4·22·40	—		
2·10	21·561	22·77	10·340	14·465	—	—	5·04·00	—		
2·15	21·424	22·62	10·430	14·640	—	—	6·02·40	—		
2·20	21·116	22·31	10·230	14·475	—	—	5·12·30	—		
2·25	20·773	22·05	9·985	14·190	—	—	5·15·20	—		
2·30	20·773	22·05	9·925	13·980	—	—	5·42·10	—		
2·35	20·497	21·79	9·630	13·900	—	—	5·21·10	—		
2·40	19·811	21·05	9·865	14·050	—	—	4·05·40	—		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			*Sca.*	*Sca.*			*t a*			
Sept. 24· 2·45	19·262	20·27	9·650	13.700	—	—	4·05·40	—		
2·50	18·713	20·16	9·200	13·250	—	—	4·05·40	—		
2·55	18·678	19·90	8·685	12·600	—	—	4·45·20	—		
3·00	18·231	19·58	8·700	12·720	83·1	80·5	4·08·40	85·8		
3·05	18·093	19·58	9·085	13·140	—	—	4·08·40	—		
3·10	17·682	19·17	9·400	13·540	—	—	3·26·00	—		
3·15	17·475	19·11	9·500	13 670	—	—	3·26·00	—		
3·20	16·721	18·13	9·600	13·730	—	—	3·10·70	—		
3·25	15·245	16·82	9·350	13·600	—	—	2·13·00	—		
3·30	14·901	16·56	9·305	13·420	—	—	2·13·00	—		
3·35	16·034	17·60	9·400	13·500	—	—	3·31·70	—		
3·40	16·789	18·13	9·570	13·700	—	—	4·31·40	—		
3·45	16·653	18·13	9·770	13·900	—	—	4·31·40	—		
3·50	16·653	18·13	9·930	14·100	—	—	4·21·00	—		
3·55	15·691	17·34	10·130	14·310	—	—	3·31·20	—		
4·00	14·867	16·45	10·550	14·750	83·0	80·3	3·12·70	86·3		
4·05	14·249	15·56	10·910	15·280	—	—	2·28·30	—		
4·10	16·515	17·60	10·850	14·990	—	—	5·03·30	—		
4·15	18·369	19·70	10·100	14·180	—	—	8·11·50	—		
4·20	19·400	21·05	9·160	13·300	—	—	10·22·40	—		
4·25	19·400	21·20	8·250	12·210	—	—	10·22·40	—		
4·30	20·429	21·79	8·150	12·090	—	—	11·19·75	—		
4·35	20·429	21·73	7·800	11·690	—	—	10·26·25	—		
4·40	20·429	21·79	7·300	11·110	—	—	9·32·00	—		
4·45	19·811	21·27	7·100	10·890	—	—	9·13·50	—		
4·50	19·056	20·22	6·765	10·500	—	—	7·33·40	—		
4·55	18·369	19·80	6·550	10·350	—	—	7·33·40	—		
5·00	19·056	20·22	6·500	10·250	83·0	80·1	7·22·50	86·0		
5·05	19·743	21·15	6·350	10·080	—	—	7·29·25	—		
5·10	19·743	21·27	6·100	9·800	—	—	7·29·25	—		
5·15	19·743	21·20	6·050	9·660	—	—	7·29·25	—		
5·20	19·056	20·60	6·150	9·910	—	—	7·22·00	—		
5·25	18·713	20·27	6·350	10·000	—	—	6·48·85	—		
5·30	18·025	19·43	6·750	10·320	—	—	5·22·20	—		
5·35	18·713	19·96	7·000	10·690	—	—	5·22·20	—		
5·40	19·400	20·53	6·700	10·450	—	—	6·36·50	—		
5·45	19·743	21·15	6·550	10·250	—	—	7·27·00	—		
5·50	19·400	20·68	7·150	10·700	—	—	7·16·00	—		
5·55	18·369	19·96	7·800	11·210	—	—	5·33·55	—		
6·00	19·400	20·11	8·350	12·090	82·7	80·0	5·06·00	85·5		
6·05	19·400	20·74	8·410	12·350	—	—	5·02·40	—		
6·10	19·400	20·74	8·760	12·800	—	—	5·02·40	—		
6·15	19·400	20·22	9·050	13·090	—	—	5·39·40	—		
6·20	18·025	19·70	9·300	13·400	—	—	4·16·70	—		
6·25	18·025	19·17	9·100	13·200	—	—	4·16·70	—		
6·30	17·682	19·11	9·150	13·100	—	—	4·16·70	—		
6·35	17·682	18·65	9·250	13·340	—	—	4·16·70	—		
6·40	17·339	18·59	9·250	13·350	—	—	4·32·35	—		
6·45	16·996	18·18	9·450	13·500	—	—	4·32·35	—		
6·50	17·682	18·91	9·650	13·550	—	—	4·46·30	—		
6·55	17·682	19·17	9·750	13·880	—	—	5·35·55	—		
7·00	17·682	19·11	9·445	13·570	82·8	79·9	5·23·00	85·0		
7·05	18·369	19·43	9·500	13·650	—	—	6·33·15	—		
7·10	19·056	20·42	9·500	13·610	—	—	6·33·15	—		
7·15	19·056	20·48	9·500	13·690	—	—	6·33·15	—		
7·20	19·056	20·53	9·700	13·870	—	—	6·33·15	—		
7·25	19·056	20·32	9·900	14·080	—	—	6·03·80	—		
7·30	19·056	19·90	9·850	14·050	—	—	6·03·80	—		
7·35	19·743	20·68	9·750	13·830	—	—	6·37·80	—		
7·40	19·743	20·94	9·950	14·100	—	—	6·45·85	—		
7·45	19·743	21·00	9·950	14·110	—	—	5·45·85	—		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Sca.	Sca.			s d			
SEPT. 24. 7·50	19·056	20·63	10·250	14·400	—	—	6·07·50	—		
7·55	19·056	20·22	10·300	14·530	—	—	5·26·50	—		
8·00	19·056	20·22	10·550	14·630	82·4	79·7	5·23·60	85·0		
8·05	18·369	19·96	11·150	14·550	—	—	5·05·00	—		
8·10	18·369	19·63	11·150	15·470	—	—	4·22·50	—		
8·15	18·883	20·16	11·185	15·250	—	—	5·20·30	—		
8·20	19·056	20·42	11·150	15·580	—	—	6·19·20	—		
8·25	18·967	20·48	11·380	15·530	—	—	6·27·60	—		
8·30	19·056	20·53	11·097	15·360	—	—	6·27·60	—		
8·35	18·437	19·70	11·315	15·620	—	—	6·06·60	—		
8·40	18·299	19·70	11·355	15·690	—	—	6·00·35	—		
8·45	18·127	19·32	11·362	15·730	—	—	6·06·40	—		
8·50	17·750	19·17	11·470	15·880	—	—	5·41·60	—		
8·55	17·904	19·17	11·450	15·820	—	—	6·12·25	—		
9·00	18·369	19·58	11·450	15·800	82·3	80·8	6·39·30	85·3		
9·05	18·781	20·16	11·530	15·860	—	—	7·21·65	—		
9·10	18·849	20·22	11·550	15·920	—	—	7·16·00	—		
9·15	19·056	20·22	11·570	15·930	—	—	7·16·00	—		
9·20	18·883	20·22	11·590	15·900	—	—	7·09·25	—		
9·25	19·056	20·22	11·535	15·900	—	—	7·09·25	—		
9·30	19·124	20·22	11·560	15·900	—	—	7·21·05	—		
9·35	18·694	20·01	11·600	15·990	—	—	6·31·30	—		
9·40	18·299	19·48	12·130	16·600	—	—	6·23·65	—		
9·45	16·653	18·13	12·925	17·410	—	—	4·31·30	—		
9·50	16·652	17·91	13·470	17·800	—	—	4·06·65	—		
9·55	16·653	17·86	—	18·100	—	—	4·43·15	—		
10·00	16·515	17·86	13·755	18·390	82·0	79·8	5·22·10	85·6		
10·15	16·996	18 54	14·125	19·150	—	—	5·35·80	—		
10·30	16·996	18·13	13·900	18·420	—	—	6·11·15	—		
10·45	17·201	18·23	13·685	18·390	—	—	6·06·10	—		
11·00	17·064	18·13	13·675	18·500	82·0	79·2	5·47·05	85·4		
11·15	16·653	18·13	13·800	18·420	—	—	5·47·05	—		
11 30	16·926	18·23	13·650	18·200	—	—	6·41·30	—		
11·45	16·858	18·13	13·450	17·980	—	—	6·37·65	—		
12·00	16·926	18·13	13·250	17·820	82·0	79·1	6·23·95	85·5		
12·15	15·828	17·18	13·380	18·200	—	—	5·37·60	—		
12·30	16·653	17 39	13·350	18·200	—	—	7·04·20	—		
12·45	16·653	17·60	13·405	18·370	—	—	6·41·10	—		
13·00	16·996	18·01	13·525	18 600	80·6	77·0	6·41·10	83·9		
13·15	17·270	18·13	13·710	18·700	—	—	6·31·30	—		
13·30	17·754	18·65	13·745	18·800	—	—	6·31·10	—		
13·45	17·956	18·85	13·980	19·000	—	—	6·30·80	—		
14·00	17·990	19·06	14·200	19·190	79·8	76·0	6·30·80	82·5		
14·15	18·369	19·17	14·300	19·220	—	—	6·07·80	—		
14·30	18·471	19·27	14·325	19·320	—	—	5·39·10	—		
14·45	18·576	19·17	14·455	19·400	—	—	5·24·00	—		
15·00	18·437	19·06	14·700	19·580	79·9	76·0	5·03·10	81·0		
15·15	18·265	18·65	14·725	19·600	—	—	4·36·50	—		
15·30	17·100	18·13	14·815	19·800	—	—	4·18·60	—		
15·45	16·996	17·91	14·920	19·890	—	—	4·07·90	—		
16·00	16·687	17·53	15·120	20·000	80·0	76·6	3·41·00	80·4		
16·15	15·986	17·08	15·260	20·100	—	—	3·25·20	—		
16·30	15·691	16·82	15·400	20·200	—	—	3·05·90	—		
16·45	15·633	16·56	15·600	20·300	—	—	2·38·85	—		
17·00	14·936	16·04	15·750	20·500	81·5	77·4	2·38·85	81·0		
17·15	14·592	15 51	16·025	20·800	—	—	2·38·85	—		
17·30	13·906	14·99	16·175	21·000	—	—	2·38·85	—		
17·45	13·734	14·99	16·200	21·050	—	—	2·28·80	—		
18·00	13·562	14·47	16·350	21·200	83 0	78·0	2·14·80	82·0		
18·15	13·906	14·47	16·350	21·250	—	—	1·45·65	—		
18·30	12·876	13·94	16·400	21 350	—	—	1·36·50	—		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	3 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time	2½ min. after Full Time.	Full Time.
D. H. M.			Scn.	Scn.			t d			
Sept. 24.18·45	12·876	13·94	16·350	21·300	—	—	1·19·75	—		
19·00	12·533	13·42	16·400	21·350	83·9	79·0	1·19·75	80·5		
19·15	11·930	13·68	16·500	21·350	—	—	1·19·75	—		
19·30	11·845	13·42	16·300	21·200	—	—	1·19·75	—		
19·45	11·673	12·90	15·250	21·150	—	—	1·19·75	—		
20·00	11·501	12·90	16·350	21·310	85·0	80·0	1·07·20	83·6		
20·15	11·501	12·90	16·250	21·300	—	—	1·27·10	—		
20·30	11·501	12·90	16·260	21·360	—	—	2·04·95	—		
20·45	11·535	13·00	16·260	21·310	—	—	2·31·40	—		
21·00	11·673	13·16	16·270	21·330	85·4	80·5	3·05·60	84·2		
21·15	11·845	13·42	16·225	21·260	—	—	3·25·25	—		
21·30	12·188	13·47	16·150	21·140	—	—	3·38·65	—		
21·45	12·533	13·94	16·080	21·080	—	—	4·02·50	—		
22·00	12·876	14·47	15·990	20·910	85·8	81·2	4·19·70	85·0		
22·15	13·287	11·67	15·930	20·900	—	—	4·16·60	—		
22·30	13·562	14·99	15·900	20·800	—	—	4·14·60	—		
22·45	13·906	15·19	15·820	20·800	—	—	4·08·35	—		
23·00	13·974	15·51	15·800	20·840	85·8	81·6	4·00·15	85·5		
Sept. 26·12·15	12·222	11·85	18·520	23·850	81·2	77·6	2·37·70	84·7		
12·30	12·188	14·35	17·540	22·700	—	—	5·02·90	—		
12·45	14·249	15·30	17·250	22·490	—	—	6·04·80	—		
13·00	12·463	12·57	17·950	23·200	81·0	77·4	4·07·50	84·7		
13·15	12·738	13·94	17·280	22·550	—	—	4·38·60	—		
13·30	13·047	14·35	17·400	22·600	—	—	5·27·20	—		
13·45	13·493	14·57	17·735	23·050	—	—	6·42·60	—		
14·00	14·317	15·51	17·825	23·050	80·5	76·2	6·47·50	83·0		
14·15	16·343	—	17·500	—	—	—	6·47·50	—		
14·30	16·447	—	17·655	—	—	—	6·33·00	—		
14·45	16·868	—	17·480	—	—	—	7·47·80	—		
15·00	17·201	18·65	17·140	22·100	80·4	76·3	6·48·10	81·5		
15·15	17·750	18·80	16·860	21·800	—	—	6·30·00	—		
15·30	17·167	18·23	16·570	21·520	—	—	4·27·50	—		
15·45	18·025	19·17	16·670	21·700	—	—	4·48·30	—		
16·00	17·339	18·49	16·700	21·580	81·0	77·2	4·05·60	81·6		
16·15	17·339	18·39	16·990	21·890	—	—	3·12·80	—		
16·30	16·658	17·86	17·050	22·000	—	—	2·43·30	—		
16·45	16·926	18·13	17·150	22·100	—	—	2·00·15	—		
17·00	16·653	17·60	17·400	22·530	82·0	78·0	1·15·35	82·0		
17·15	16·034	17·23	17·600	22·750	—	—	1·07·10	—		
17·30	15·657	16·82	17·630	22·790	—	—	1·32·00	—		
17·45	15·628	16·14	17·625	22·760	—	—	1·30·60	—		
18·00	14·901	16·04	18·200	23·200	83·0	79·4	1·05·25	82·3		
18·15	14·936	16·04	17·800	22·680	—	—	2·07·50	—		
18·30	14·249	15·25	17·800	22·640	—	—	2·49·75	—		
18·45	13·906	14·73	18·150	23·130	—	—	2·39·30	—		
19·00	13·287	14·47	17·800	23·380	84·0	80·1	2·26·00	83·5		
19·30	13·219	14·20	17·250	22·300	—	—	2·24·55	—		
20·00	11·879	12·90	17·300	22·500	84·8	80·4	1·39·80	84·0		
20·30	10·814	11·85	17·350	22·500	—	—	1·29·75	—		
21·00	10·985	12·90	16·765	21·900	85·2	80·8	2·34·10	84·2		
21·30	12·876	13·94	17·085	22·200	—	—	5·19·45	—		
22·00	12·669	14·99	16·770	21·500	85·8	81·9	5·41·20	85·2		
22·30	13·562	15·40	15·800	20·600	—	—	5·26·70	—		
23·00	14·557	15·71	15·300	20·280	85·9	82·0	5·01·30	85·5		
23·15	16·447	17·70	14·900	19·600	—	—	6·16·55	—		
23·30	17·750	19·11	14·050	18·760	—	—	6·39·40	—		
23·45	19·468	20·37	13·255	17·850	—	—	7·17.20	—		
Sept. 27. 0·00	20·276	21·47	12·210	16·680	85·4	81·8	6·41·10	86·0		
0·15	20·909	22·05	11·710	16·100	—	—	6·20·05	—		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			i d			
Sept. 27 0.30	19·949	21·00	11·350	15·600	—	—	5·24·90	—		
0.45	19·468	20·74	10·950	15·200	—	—	4·35·00	—		
1.00	19.194	21·27	11·125	15·150	84·7	81·7	3·09·10	85·7		
1.15	19·940	21·79	11·260	15·480	—	—	4·28·10	—		
1·30	21·733	22·57	11·700	15·950	—	—	6·10·60	—		
1·45	20·453	20·89	11·930	16·610	—	—	4·32·20	—		
2·00	18·849	19·90	12 360	16·930	83·8	80·1	3·22·80	85·4		
2·15	17·956	19·19	12·680	17·100	—	—	3·31·20	—		
2·30	17·064	18·44	12·450	17·400	—	—	3·26·00	—		
2·45	16·996	18·13	12·400	16·910	—	—	3·31·40	—		
3·00	16·653	17·75	12·000	16·550	83·0	80·0	4·16 30	85·5		
3·15	16·515	17·60	12·340	17·000	—	—	4·24·20	—		
3·30	16·515	17·60	12·455	17·150	—	—	4·49·40	—		
3·45	16·447	17·60	12·600	17·300	—	—	5·20·90	—		
4·00	16·515	17.60	13·630	18·600	83·0	80·0	5 42·20	—		
4·15	16·653	17 60	13·900	18·700	—	—	6·15·15	85·5		
4·30	16·653	17·60	13·800	18·700	—	—	1·15·15	—		
4·45	15·966	17·08	13·900	18·800	—	—	5·38·50	—		
5·00	15·074	16·56	14·115	19·000	82·8	79·8	5·03·50	85·5		
5·15	15·280	16.56	14·100	19·000	—	—	5·43·60	—		
5·30	15·623	17 08	14·250	19 300	—	—	6·02·30	—		
5·45	15·897	17·03	14·400	19·590	—	—	6·22·30	—		
6·00	15 623	16.56	14·460	19·500	82·6	79·4	6·32·85	85·6		
6·15	15·623	16·61	14·650	19·650	—	—	6·26·50	—		
6·30	15·348	16·56	14·850	19·850	—	—	6·35·80	—		
6·45	15·211	16·56	15·050	20·000	—	—	6·35·80	—		
7·00	15·074	16·04	15·600	21·000	82·5	79·6	6·43·35	85·0		
7·15	14·249	15·25	16·600	21·800	—	—	5·48·50	—		
7·30	14·076	15·04	16·165	21·400	—	—	6·38·15	—		
7·45	14·249	15·51	16·050	21·290	—	—	7·11·00	—		
8·00	14·936	16·04	15·750	21·000	82·5	79·4	7·28·70	84·7		
8·15	14·936	16·04	15·760	21·000	—	—	7·28·70	—		
Oct. 13 0·00	14·249	15·25	16·210	20·230	89·7	87·0	1·24·90	90·3		
0·15	14·042	15·04	16·260	20·300	—	—	1·17·75	—		
0·30	13·974	14·99	16·330	20·370	—	—	1·14·30	—		
0·45	13·768	14·57	16·550	20·650	—	—	1·23.70	—		
1·00	13·906	14·78	16·560	20·700	88·7	86·4	2·21·50	89·7		
1·15	14·179	15·14	16·270	20·300	—	—	3·03·90	—		
1·30	14·317	15·40	15·780	19·810	—	—	3·18·40	—		
1·45	14·936	16·04	15·125	19·030	—	—	3·37·30	—		
2·00	15·623	16·56	14·900	18·840	88·0	86·0	3·45 50	89·5		
2·15	15·348	16·30	14·990	18·900	—	—	3·16·50	—		
2·30	15·416	16·30	14·710	18·720	—	—	3·16·50	—		
2·45	15·280	16·24	14·560	18·480	—	—	3·11·70	—		
3·00	15·485	—	14·215	—	—	—	3·30·70	—		
3·15	15·416	16·56	14·035	17·970	87·5	85·8	3·30·70	89·5		
3·30	15·760	16 66	13·830	17·800	87·4	85·8	3·40·50	89·5		
3·45	15·997	16·97	13·770	17·900	87·4	85·7	3·40·50	89·5		
4·00	16·584	17·48	14·010	18·270	87·0	85·4	4·07·30	89·3		
4·15	16·721	17·60	14·300	18·500	87·0	85·2	4·01·50	89·0		
4·30	16·481	17·05	14·500	18·700	87·0	85·0	4·04·50	89·0		
4·45	16·309	17·08	14·690	18·900	87·0	85·0	2·46·90	89·0		
5·00	15·966	16·56	14·950	19·200	86·9	84·6	2·26·00	89·0		
5·15	15·280	16·56	15·150	19·500	86·5	84·0	2·26·00	89·0		
5·30	15·280	16·04	15·390	19·600	86·5	84·0	2·15·50	89·0		
5·45	15·553	16·56	15·300	19·600	86·5	84·0	2·01·40	89·0		
6·00	15·965	17·08	15·450	19·720	86·1	84·0	2·03.00	89·0		
Oct. 22.16·15	14·386	15.30	21·100	24·500	83·9	80·0	3·03.90	84·1		
16·30	14·592	15·61	21·330	24·620	84·0	80·4	2·26·50	84·3		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			*Sca.*	*Sca.*			*t d*			
Oct. 22 16 45	15·623	15·77	20·600	24·200	85°0	80°0	1·38·40	84°5		
17 00	15·004	15·51	20·100	23·850	85·0	80·2	2·36·80	84·5		
17 15	13·562	14·99	21·050	24·300	85·2	81·0	1·34·40	84·7		
17 30	13·219	13·94	21·060	24·400	85·5	81·0	0·38·60	84·7		
17 45	12·290	13·42	21·310	24·600	85·8	81·2	0·17·50	85·0		
18 00	11·845	12·63	21·300	24·350	86·0	82·0	0·36·25	85·3		
18 15	11·501	12·37	21·100	24·500	86·5	82·0	0·36·25	85·3		
18 30	11·053	11·85	21·250	24·425	86·7	82·0	1·04·05	85·5		
18 45	10·539	11 59	21·440	24·600	86·7	82·0	0·34·35	86·0		
19 00	10·814	11·85	21·300	24·400	87·0	82·9	1·21·75	86·0		
20 00	12·533	13·94	19·600	22 550	87·5	81·0	4·41·00	86·5		
21 00	16·034	16·56	18 920	21·4.0	88·0	84·8	4·48·05	87·3		
21 30	14 918	15·97	15·160	17·190	88·3	85·2	4·41·90	87·7		
21 45	14·464	14·99	14·160	16·300	88·4	85·6	5·18·10	88·0		
22 00	17·339	18·18	12·810	14·360	88·4	86·0	8·35·10	88·3		
22 15	18·609	18·13	12 140	14·000	88·5	85·9	8·29·70	88·5		
22 30	16·584	17·60	11·910	13·970	88·5	85·9	8·14·40	88·5		
22 45	16·240	16·82	13·497	15·590	88·5	86·0	5·00·25	88·7		
23 00	15·519	16·92	14·060	15·900	88·9	86 0	5·02·25	89·0		
23 15	17·064	18·13	12·940	14·840	88·8	86·0	6·21·70	89·0		
23 30	16·653	17·48	12·727	15·000	88·6	86·0	5·38·05	89·0		
23 45	15·587	16·56	13·805	16·050	88·5	86·0	2·08·70	89·2		
Oct. 23 0 00	14·317	16·04	13·130	15·600	88 2	85 6	2·32·75	89·0		
0 15	15·004	15·97	13·257	15·200	88·0	86·0	1·12·70	88·7		
0 30	14·454	14·88	11·170	13·390	88·0	86·0	3·27·60	88·6		
0 45	14·660	16·50	10·345	12·410	87·5	85·9	2·18·30	88·4		
1 00	15·623	16 50	10·440	12 590	87·5	85·8	3·02·40	89·0		
1 15	15·074	16·09	9·870	11·990	87·3	85·5	3·34·90	87·7		
1 30	16·789	18·13	8·960	11·000	87·0	85·0	4·47·80	87·5		
1 45	15·142	15·45	6·990	9·150	86·6	84·3	4·06·95	87·7		
2 00	17·819	19·17	6·075	7·900	86·4	84·2	6·08·75	88·0		
2 15	17·682	17·60	6 850	8·890	86·2	84·0	4·27·80	88·0		
2 30	15·553	16·30	7·160	9·250	86·2	84·0	2·26·25	88·0		
2 45	15·623	16·50	7·150	9·090	86·0	83·9	3·21·50	88·2		
3 00	16·378	15·5[illegible]	7·370	9·260	85·9	83·6	4·26·60	88·4		
3 15	18·093	19·17	8·500	10·680	85·8	83·6	5·20·95	88·3		
3 30	17·936	18·80	9·450	11·620	86·9	83·5	3·14·75	88·3		
3 45	16·721	17·48	9·650	11·880	85·5	83·6	3·01·50	88·1		
4 00	18·025	17·60	10·225	12·595	85·5	88 1	3·00·00	88·5		
4 15	16 585	17·08	10·850	13·300	85·5	83·0	3·23·10	88·5		
4 30	16 084	17·08	11·100	13·400	85·3	83·0	4·16 20	88·5		
4 45	16·584	17·60	10·550	12·900	85·2	83·0	4·31·70	88·5		
5 00	16·721	13·13	10·150	12·150	85·0	83·0	4·35·35	88·2		
5 15	17·339	18·65	9·250	11·400	85·0	82·6	5·45 10	88·3		
5 30	18·025	19·17	9·850	12·010	85·0	82·2	5·00·90	88·3		
5 45	18·025	19·17	9·850	11·900	85·0	82·0	4·39·30	88·3		
6 00	18·369	19·70	9·800	11·900	84·8	82·1	5·03·15	88·3		
6 15	18·781	19·70	9·650	11·500	84·8	82·0	5·16·50	88·3		
6 30	18·713	19·70	10·000	11·900	84·8	82·0	5·09·17	87·7		
6 45	19·400	21·27	10·050	11·900	84·7	82·0	6·11·00	87·6		
7 00	20·086	21·27	10·800	13·200	84·7	82·0	5·43·10	87·5		
7 15	20·773	21·79	11·850	14·100	84·7	82·0	5·17·25	87·5		
7 30	19·056	19·17	12·750	15·100	84·7	82·0	3·40·25	87·5		
7 45	16·996	17·86	14·150	16·800	84·8	82·0	2·48·85	87·5		
8 00	16·721	17·08	13·420	16·850	84·7	82·0	3·23·95	87·5		
8 15	16·653	17·60	13·810	16·790	84·6	82·4	4·31·35	87 5		
8 30	16·977	18·65	12·850	14·600	84·5	82·0	5·46·90	87·5		
8 45	16·996	18·13	13·085	15·500	84·5	82·0	4·09·05	87·5		
9 00	17·201	18·06	12·770	15·260	84·5	81·9	4·30·75	87·5		
9 15	16·996	18·13	13·000	15·400	84·4	82·0	3·48·60	87·5		
9 30	16·755	18·01	13·250	15·700	84·5	82·0	4·22·80	87·5		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scn.	Scn.			t d			
Oct. 23 9·45	16·670	18·01	13·402	16·000	84°3	82°0	4·44·80	87°4		
10·00	16·721	18·13	13·485	16·000	84·3	81·9	5·00·60	87·2		
10·15	16·960	18·39	13·600	16·090	84·2	81·6	5·27·75	87·2		
10·30	17·819	18·65	13·275	15·500	84·2	81·6	5·11·60	87·2		
10·45	16·515	17·48	14·232	16·800	84·0	81·6	4·00·90	87·0		
11·00	15·966	17·03	14·775	17·310	84·0	81·6	3·40·85	87·0		
11·15	14·574	16·04	14·365	16·890	84·0	81·4	3·28·20	87·0		
11·30	14·660	15·51	14·290	16·890	84·0	81·3	3·28·20	87·0		
11·45	14·936	16·09	14·510	17·080	84·0	81·0	3·28·20	86·9		
12·00	15·742	16·50	14·540	17·080	83·8	80·8	4·11·45	86·8		
12·15	16·309	17·08	14·190	16·500	83·8	80·8	4·37·70	87·1		
12·30	15·966	17·08	14·190	16·400	83·8	80·8	4·37·70	87·1		
12·45	16·102	16·97	13·900	16·340	83·8	80·6	4·37·70	87·2		
13·00	16·102	17·08	13·850	16·360	83·9	80·8	5·21·20	87·1		
13·15	16·000	16·56	14·000	16·600	83·9	80·8	5·21·20	87·1		
13·30	15·760	16·97	14·125	16·600	83·9	80·8	5·21·20	86·6		
13·45	16·549	17·60	14·220	16·540	83·6	80·8	6·49·30	86·4		
14·00	17·167	18·13	14·300	16·5·0	83·4	80·8	7·01·30	86·0		
14·15	17·509	18·54	14·320	16·720	83·4	80·8	6·19·40	85·3		
14·30	17·682	18·65	14·300	16·800	83·6	80·8	5·37·90	85·0		
14·45	17·612	18·28	14·450	16·980	83·8	80·8	5·09·60	84·9		
15·00	17·544	18·23	14·650	16·990	83·9	80·8	4·34·30	84·8		
15·15	17·064	18·13	14·950	17·200	84·0	81·0	4·12·60	84·9		
15·30	16·926	17·60	15·070	17·520	84·4	81·2	3·45·40	84·9		
15·45	16·926	17·70	15·150	17·580	84·6	81·2	3·45·40	85·0		
16·00	16·996	18·01	15·110	17·420	84·8	81·4	3·45·40	85·0		
16·15	16·309	17·60	15·050	17·250	85·0	81·4	3·29·40	85·0		
16·30	16·309	16·82	15·050	17·200	85·0	81·4	3·10·65	85·0		
16·45	15·623	16·56	15·150	17·200	85·0	81·8	2·47·50	85·0		
17·00	15·348	16·56	15·600	17·550	85·5	82·0	2·38·90	85·0		
17·15	15·280	16·04	15·525	18·100	86·0	82·2	2·07·25	85·5		
17·30	15·280	16·04	16·000	18·150	86°5	83·0	2·07·25	85·5		
17·45	14·523	15·51	16·200	18·600	87·2	84·0	2·07·25	86·0		
Oct. 25 2·15	18·299	18·65	13·040	15·600	86·0	83·3	7·06·20	88·2		
2·30	17·612	18·65	12·810	15·230	86·0	83·3	6·09·30	88·2		
2·45	17·612	18·13	12·820	15·600	86·0	83·3	6·09·30	88·2		
3·00	17·682	18·65	12·975	15·800	86·0	83·3	5·37·90	88·3		
3·15	18·025	18·65	13·350	16·000	86·0	83·4	6·09·90	88·4		
3·30	18·162	18·65	14·220	17·100	86·0	83·4	5·31·40	88·5		
3·45	16·034	17·18	14·230	17·200	86·0	83·5	4·37·20	88·5		
4·00	16·240	17·08	14·875	17·620	86·0	83·5	5·00·20	88·5		
4·15	16·309	18·13	13·800	16·450	86·0	83·6	6·37·70	88·5		
4·30	17·682	18·13	14·550	17·510	86·0	83·4	6·07·25	88·5		
4·45	16·966	17·60	14·750	17·600	85·8	83·4	5·31·20	88·5		
5·00	16·584	17·60	14·750	17·600	85·7	83·0	5·44·05	88·5		
5·15	16·309	17·08	14·800	17·600	85·5	82·8	5·44·05	88·5		
5·30	16·653	17·60	14·800	17·600	85·5	82·8	6·13·60	88·5		
5·45	16·309	17·08	14·700	17·500	85·5	82·8	6·05·90	88·5		
6·00	16·309	17·08	14·800	17·550	85·3	82·8	5·36·90	88·5		
6·15	16·309	17·08	14·750	17·500	85·3	82·2	5·36·90	88·5		
6·30	—	—	—	—	—	—	—	88·3		
Oct. 29 3·15	14·179	14·99	16·990	19·500	85·8	83·2	2·07·70	88·5		
3·30	14·179	15·30	16·920	19·400	85·8	83·2	2·13·50	88·5		
3·45	14·317	15·40	16·800	19·300	85·8	83·0	2·13·50	88·5		
4·00	14·523	15·51	16·900	19·600	85·6	82·8	2·13·50	88·5		
4·15	14·249	14·99	17·100	19·650	85·5	82·8	2·13·50	88·3		
4·30	14·249	15·40	17·100	19·620	85·6	82·1	2·23·90	88·4		
4·45	14·523	15·45	17·110	19·700	85·6	82·1	2·28·40	88·4		
5·00	14·293	—	17·500	20·200	85·5	—	2·15·20	88·5		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			s d			
Nov. 1. 3.15	15·691	17·08	14·900	17·100	84°8	81°2	4·28·90	86°9		
3.30	16·000	17·08	15·160	17·280	84·6	81·2	4·05·90	86·3		
Nov. 22. 4.00	14·213	16·04	19·400	19·220	80·8	76·6	2·35·00	83·5		
5.00	13·287	15·51	21·250	21·400	80·2	76·9	3·31·70	—		
5.30	12·738	14·47	21·925	22·600	80·2	76·9	3·20·00	83·3		
5.45	13·219	14·99	20·750	20·550	80·0	76·0	4·03·75	83·0		
6.00	14·351	16·56	21·600	19·500	80·0	76·0	4·31·50	82·9		
6.15	15·074	16·04	18·525	18·500	80·0	76·0	4·31·50	82·9		
6.30	15·109	17·08	18·450	18·450	79·8	75·9	4·01·15	82·9		
6.45	13·219	17·60	18·700	18·600	79·5	75·0	3·39·50	82·5		
7.00	12·876	17·60	18·200	17·700	79·0	75·0	3·39·50	82·5		
7.15	15·691	17·60	18·600	18·200	79·0	75·0	2·09·50	82·0		
7.30	15·623	17·60	18·675	18·000	79·0	74·9	2·09·50	82·0		
7.45	15·691	17·08	18·825	18·450	78·9	74·9	1·43·80	82·0		
8.00	14·592	17·08	19·950	18·500	78·9	74·0	2·10·75	82·0		
8.15	14·592	17·08	19·025	18·600	78·8	74·0	2·10·75	82·0		
8.30	15·966	17·34	18·025	17·300	78·4	74·0	3·04·00	82·4		
8.45	19·381	18·13	17·925	16·750	78·4	74·0	2·17·50	82·0		
9.00	16·441	17·86	16·750	16·050	78·4	74·0	3·09·00	82·0		
9.15	16·683	18·65	16·400	15·750	78·4	74·0	2·09·50	81·8		
9.30	17·682	19·70	16·500	15·850	78·3	74·0	2·29·00	81·5		
9.45	18·369	20·22	16·480	15·950	78·3	74·0	2·21·00	81·4		
10.00	17·682	19·70	17·025	16·400	78·3	74·0	1·33·00	81·4		
10.15	16·299	19·70	16·820	16·400	78·2	74·0	2·31·00	81·4		
10.30	18·025	18·65	17·000	16·600	78·2	74·0	2·23·50	81·1		
10.45	16·658	19·17	17·050	16·400	78·1	74·0	1·28·50	81·0		
11.00	18·025	19·27	16·800	16·100	78·0	74·0	2·43·00	81·0		
11.15	17·389	18·65	16·900	16·250	77·9	73·9	2·15·00	81·0		
11.30	16·515	18·54	17·000	16·500	77·9	73·9	2·10·00	80·6		
11.45	16·309	18·06	17·200	16·500	77·6	73·7	2·16·00	80·5		
12.00	15·897	17·60	17·475	16·740	77·4	73·4	2·27·40	80·5		
13.00	15·074	16·56	18·250	17·520	77·0	73·0	3·28·50	80·0		
14.00	12·583	14·47	19·090	18·400	76·8	72·3	2·38·00	79·4		
15.00	10·814	12·73	19·330	18·800	76·8	72·0	1·12·20	77·7		
15.15	10·471	12·63	19·750	19·400	76·9	72·0	1·09·90	77·5		
15.30	10·128	11·90	19·710	19·000	77·0	72·0	1·32·50	77·5		
15.45	11·157	11·59	19·550	19·080	77·2	72·0	1·30·50	77·5		
16.00	10·128	10·80	19·350	18·620	77·8	72·1	0·27·00	77·5		
16.15	8·755	11·33	18·050	17·150	78·5	72·5	1·23·50	77·5		
16.30	9·441	9·70	18·000	17·000	78·8	72·5	1·23·50	77·6		
16.45	9·837	12·90	17·140	15·500	79·0	73·0	1·06·00	77·7		
17.00	10·814	12·90	16·700	15·500	79·4	73·3	5·48·40	78·0		
17.15	11·845	13·94	16·650	15·500	79·9	73·5	6·10·55	78·0		
17.30	12·876	14·73	17·075	15·800	80·2	74·0	6·09·00	78·4		
17.45	13·389	15·51	17·125	15·800	80·5	74·0	5·14·75	78·5		
18.00	14·213	15·77	16·900	15·650	81·0	74·9	5·45·55	79·5		
18.15	14·249	16·04	17·100	15·950	81·2	75·0	4·35·20	79·5		
18.30	13·906	16·04	17·275	16·025	81·5	75·5	4·35·20	79·5		
18.45	13·906	16·04	17·080	15·750	82·0	76·0	4·19·75	79·8		
19.00	14·420	16·04	16·850	15·750	82·0	76·0	5·16·10	80·0		
19.15	14·936	17·13	17·200	16·050	82·3	76·5	5·28·50	80·2		
19.30	15·280	17·08	17·250	16·100	82·5	76·5	5·09·85	80·5		
19.45	16·136	18·13	17·050	16·700	83·0	77·0	6·00·65	80·7		
20.00	16·136	17·60	17·100	16·800	83·0	77·5	5·13·05	81·0		
20.15	16·996	18·65	17·080	16·600	83·0	77·9	5·27·25	81·5		
20.30	16·996	19·11	17·080	16·620	83·1	78·0	5·15·50	82·0		
20.45	16·996	19·11	17·100	16·570	83·4	78·0	5·06·00	82·2		
21.09	17·133	19·06	17·950	15·420	83·8	78·2	4·34·50	82·2		
21.15	17·064	18·96	17·880	16·400	83·9	78·3	4·08·50	82·5		
21.30	16·926	18·65	16·800	15·400	84·0	78·9	3·30·00	82·5		
21.45	16·926	18·65	16·610	15·250	84·0	79·0	3·30·00	82·7		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	54 min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			i d			
Nov. 22·22·00	16·515	18·13	16·480	15·100	84°1	79°4	3·06·00	82°8		
22·15	16·515	18·13	16·390	15·000	84·2	79·8	2·44·00	83·3		
22·30	16·515	18·13	16·330	14·990	84·3	79·9	2·36·50	83·5		
22·45	16·515	18·13	16·310	14·990	84·4	79·9	2·20·50	83·5		
23·00	16·515	18·13	16·320	15·100	84·4	79·9	2·20·50	83·7		
23·15	16·653	18·39	16·240	15·100	84·4	79·9	2·20·50	83·7		
23·30	16·858	18·49	16·100	15·000	84·6	79·8	2·40·00	83·6		
23·45	16·721	18·44	16·100	15·000	84·0	79·9	2·24·50	83·6		
Nov. 23. 0·00	16·721	18·44	16·270	15·250	84·0	79 9	2·24·50	83·6		
0·15	16·447	18·39	16·330	15·200	83·8	80·0	2·13·50	83·6		
0·30	16·034	17·86	16·300	15·220	83·4	79·8	2·17·50	83·6		
0·45	16·172	18·01	16·470	15·490	83·2	79·7	2·29·50	83·5		
1·00	16·240	16·69	16·600	15·600	82·8	79·2	2·41·30	83·5		
1.15	16·034	17·80	16·690	15·700	82·2	79·8	2·41·30	82·4		
1 30	15·760	17·53	16·790	15·880	82·0	79·0	2·41·30	82·4		
1·45	15·828	17·48	16·790	15·900	81·8	79·0	3·06·50	82·4		
2·00	15·897	17·60	16·800	15·990	81·5	78·8	3·16·50	82·3		
2·15	15·828	17·48	16·800	16·020	81·5	78·0	3·26·50	82·3		
2.30	15·760	17·34	16·810	16·090	81·4	78·0	3·25·50	82·3		
2.45	15·553	17·23	16·860	16·100	81·4	77·9	3·26·00	82·3		
3·00	15·348	17·18	16·825	16·120	81·1	77·8	3·32·50	83·3		
3·15	15·142	17·02	16·840	16·190	81·0	77·8	3·21·00	83·3		
3·30	15·142	16·92	16·910	16 300	80·8	77·2	3·14·65	82·8		
3·45	15·142	17·13	16·680	16·120	80·8	77·0	3·05·70	82·3		
4·00	15·142	17·08	16·750	16·190	80·7	76·7	3·07·20	82·3		
Nov. 28.17·00	14·936	16·40	21·050	19·340	75·0	69·0	2·06·95	73·5		
17·15	14·592	16·40	21·110	19·340	75·0	69·0	1·34·25	74·0		
17·30	14·592	16·09	21·150	19·380	75·0	70·0	0·42·65	74·0		
17·45	14·076	15·77	21·210	19·360	75·5	70·0	1·10·50	74·0		
18·00	13·734	15·40	21·275	19·400	76·0	70·3	0·35·90	74·5		
18·15	13·562	14·99	21·325	19·380	76·0	70·3	0·00·75	74·8		
18.30	13·219	14·78	21·300	19·320	76·5	70·3	0·11·00	75·0		
18·45	12·876	14·47	21·275	19·400	77·0	70·3	−0·44·55	75·0		
19·00	12·703	14·20	21·250	19·440	77·4	71·9	−0·37·70	75·0		
19·15	12·533	13·94	21·250	19·400	77·5	72·0	−0·37·70	76·0		
19·30	12·533	14·99	21·200	19·300	77·5	72 5	−0·37·70	76·0		
19·45	12·188	14·20	21·175	19·300	77·8	72·5	−0·37·70	76·2		
20·00	12·533	14·47	21·075	19·100	78·0	73·0	−0·25·25	76·5		
20·15	12·876	14·73	21·075	19·000	78·5	73·9	—	76·5		
20·30	13·219	14·99	20·975	18·900	78·5	74·0	0·43·25	76·6		
21·00	14·042	15·77	20·780	18·640	78·4	74·0	0·42·75	77·5		
21·15	14·454	16·30	20·720	18·550	78·6	74·2	1·05·00	77·5		
21·30	14·660	16·56	20·680	18·460	78·7	74·2	1·08·75	77·5		
21·45	15·004	16·66	20·600	18·420	78·7	74·2	1·08·75	77·5		
22·00	15·142	16·82	20·590	18·100	78·9	74·3	1·08·80	78·0		
22·15	15·004	16·82	20·540	18·080	78·9	74·4	1·08·80	78·2		
22·30	15·004	16·76	20·500	18·050	79·0	75·0	1·08·80	78·2		
Dec. 16·22·00	14·592	16·04	19·600	16·100	81·5	76·8	−2·06·50	80·3		
22·30	13·974	15·51	19·350	16·040	—	—	−2·13·50	—		
23·00	13·493	14·93	19·320	16·140	81·9	76·8	−1·39·00	80·8		
23·15	13·219	14·78	20·740	17·820	—	—	−1·39·00	—		
23·30	13·081	14·57	20·830	18·000	—	—	−1·32·00	—		
23.45	13·493	14·67	20·950	18·140	—	—	−0·39·00	—		
Dec. 17. 0·00	14·798	15·19	20·840	17·900	81·7	77·7	−0·27·00	81·2		
0·15	15·211	15·92	20·300	17·440	—	—	−1·08·00	—		
0·30	14·728	16·14	19·840	17·000	—	—	−0·20·00	—		
0·45	13·906	15·77	20·080	17·200	—	—	−0·15·50	—		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	3 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Sca.	Sca.			t d			
Dec. 17 1·00	13·355	15·09	20·120	17·260	84·5	76·4	-0·27·50	80·4		
1·15	13·630	15·09	20·240	17·460	—	—	0·06·50	—		
1·30	13·493	15·04	20·100	17·240	—	—	0·11·00	—		
1·45	13·974	15·30	19·810	16·940	—	—	1·03·00	—		
2·00	14·317	15·61	19·700	16·800	79·2	75·6	1·10·50	80·0		
2·15	14·179	15·77	21·190	18·600	—	—	0·36·50	—		
2·30	14·592	15·82	20·590	17 970	—	—	1·31·50	—		
2·45	14·936	16·19	20·190	17·460	—	—	0·33·50	—		
3·00	14·660	16·04	20·550	18·100	78·8	75·0	1·35·80	80·0		
3·15	14·523	15·77	19·960	17·220	78·6	74·3	1·18·50	80·0		
3·30	14·179	15·40	19 600	16·700	78·4	74·2	1·21·00	80·2		
3·45	14·249	15·97	17·800	14·600	78·0	74 0	2·65·80	80·0		
4·00	14·936	16·66	17·000	13·600	77·9	74·0	2·38·00	80·0		
4·15	15·623	17·34	16·100	13·020	78·0	74·0	2·01·00	79·8		
4·30	17·339	18·65	15·425	12·300	77·5	74·0	2·29·40	79·9		
4·45	17·133	18·65	15·750	12·800	77·5	74·0	0·34·85	79·9		
5·00	17·339	18·65	16·200	13·400	77·5	74·0	-0·28·60	79·8		
5·15	17·304	18·65	16·800	13·900	77·0	73·5	-0·12·55	79·8		
5·30	17·407	18·65	16·300	13·100	77·0	73·5	0·42 00	79·4		
5·45	17·853	19·19	15·550	12·000	76·5	73·0	0·42·00	79·3		
6·00	17·716	19·70	15·375	11·750	76·5	72·5	0·25·50	79·2		
6·15	18·781	20·48	14·225	10·800	76·3	72·5	1·47·65	79·0		
6·30	18·781	20·22	13·775	10·300	76·2	72·4	1·47·65	78·9		
6·45	18·883	20·22	13·200	10·600	76·2	72·2	1·44·50	78·6		
7·00	19·056	21·27	15·125	12·225	76·2	72·2	1·31·60	78·5		
7·15	18·883	21·27	15·425	12·400	76·2	72·1	1·31·60	78·5		
7·30	18·883	21·27	15·100	12·300	76·0	72·1	2·08·00	78·5		
7·45	20·086	21·53	15·950	13·200	76·0	72·0	2·34·65	78·5		
8·00	19·845	22·31	15·600	13·000	76·0	72·0	2·23·85	78·4		
8·15	20·086	21·79	15·750	12·700	75·8	71·9	1·40·00	78·2		
8·30	20·206	21·79	16·990	12·550	75·3	71·9	2·24·00	78·1		
8·45	19·468	20·74	16·920	12·650	75·3	71·8	1·26·00	78·0		
9·00	19·400	20·48	15·870	12·700	75·2	71·8	1·41·00	77·7		
9·15	18·919	20·22	16·200	13·000	75·0	71·4	2·41·50	77·5		
9·30	18·025	19·70	17·650	13·750	75·0	71·4	2·41·50	77·4		
9·45	18·507	20·07	17·200	13·900	75·0	71·0	3·24·15	77·3		
10·00	18·093	19·17	17·320	14·250	75·0	71·0	3·05·00	77·2		
10·15	18·231	19·70	17·460	14·360	75·0	70·6	3·42·80	77·0		
10·30	17·956	19·17	17·550	14·50	74·8	70·2	3·38·00	77·0		
10·45	17·956	19·17	17·600	14·52	74·8	70·2	3·33·00	77·0		
11·00	18·025	19·70	17·400	14·450	74·8	70·0	3·48·00	77·0		
11·15	18·093	19·70	17·550	14·600	74·7	70·0	3·48·00	77·0		
11·30	17·064	18·65	17·550	14·450	74·3	70·0	3·06·15	76·9		
11·45	16·789	18·13	17·590	14·400	74·2	70·0	3·06·15	76·8		
12·00	16·515	18·01	17·800	14·500	74·2	70·0	2·44·50	76·7		
12·15	16·102	17·60	17·990	14·750	74·1	70·0	2·38·80	76·7		
12·30	16·378	17·48	17·500	14·600	74·6	69·7	3·06·50	76·7		
12·45	15·897	16·97	17·950	14·600	74·2	69·0	2·27·00	76·7		
13·00	15·623	16·08	17·750	14·540	74·0	69·0	2·37·50	76·6		
13·15	15·348	17·08	17·810	14·490	74·0	69·0	2·42·50	76·5		
13·30	15·485	16·92	17·890	14·400	73·8	69·0	2·34·50	76·4		
13·45	14·592	16·56	18·760	15·350	73·5	68·3	1·43·50	76·5		
14·00	14·936	15·92	19·150	15·000	73·8	68·1	2·32·50	76·5		
14·15	14·798	16·56	19·100	15·900	75·8	68·6	2·40·00	76·3		
14·30	15·142	15·56	19·240	15·890	73·8	68·3	4·06·50	75·8		
14·45	13·906	15·56	19·150	15·950	73·7	68·4	2·09·00	75·6		
15·00	12·944	15·19	19·650	15·950	74·0	68·3	0·28·00	74·7		
15·15	13·906	15·40	18·740	15·500	74·2	68·5	1·21·50	74·5		
15·30	13·906	15·51	18·850	15·580	74·6	68·3	1·00·00	74·3		
15·45	14·179	15·66	18·750	15·400	74·8	68·5	1·22·00	74·3		
16·00	13·974	15·51	18·900	15·580	75·0	68·4	1·10·00	74·4		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declinon.
	At Full Time.	5 min. after Full Time.	3 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
Dec. 17·16·15	14·179	15·56	18·740	15·400	75°4	69°0	1·28·00	74°4		
16·30	14·454	15·97	18·750	15·700	75·6	69·0	1·28·00	74·4		
16·45	13·562	14·73	19·725	16·500	75·9	69·2	0·00·30	74·6		
17·00	12·772	14·20	20·275	17·100	76·2	69·5	0·01·20	74·8		
17·15	12·806	13·94	20·010	16·930	76·9	70·0	1·42·86	75·2		
17·30	12·533	14·20	20·240	16·900	77·2	70·3	1·42·85	75·2		
17·45	12·772	14·47	20·250	17·000	77·4	70·6	1·42·85	75·8		
18·00	13·562	14·99	19·700	16·380	78·0	71·5	3·11·35	76·2		
18·15	13·734	14·99	19·700	16·380	78·3	72·0	2·35·00	76·5		
18·30	14·249	15·51	19·450	16·115	78·8	72·0	2·16·25	76·8		
18·45	14·986	16·30	19·235	15·990	79·6	72·5	3·37·40	76·9		
19·00	15·142	16·45	19·160	15·850	79·4	73·0	3·32·35	77·5		
19·15	15·176	16·82	19·190	15·775	79·9	73·5	3·17·50	77·7		
19·30	15·450	16·82	19·200	15·775	80·0	73·9	3·17·50	77·7		
19·45	15·450	16·82	19·100	15·400	80·2	74·5	3·17·50	77·9		
20·00	15·416	16·56	19·025	15·210	80·5	74·9	3·29·90	78·5		
Dec. 19·4·45	19·468	20·74	15·900	13·140	79·4	77·0	4·08·00	81·2		
5·00	17·064	17·60	15·800	12·800	79·3	76·4	1·27·50	80·8		
5·15	17·451	19·70	14·175	10·900	79·3	76·0	2·44·25	80·8		
5·30	18·541	19·70	14·180	11·100	79·0	76·0	3·27·90	80·5		
5·45	17·612	18·91	13·940	10·670	79·0	75·9	2·03·60	80·5		
6·00	18·025	19·68	14·625	11·400	79·0	75·9	2·13·25	80·5		
6·15	17·784	19·73	13·645	10·660	78·3	75·8	1·47 25	80·4		
6·30	18·883	20·48	14·160	11·000	78·5	75·0	2·15·25	80·3		
6·45	19·914	21·79	14·560	11·800	78·3	75·0	2·45·50	80·3		
7·00	19·228	20·22	15·600	12·500	78·3	75·0	1·37·35	80·4		
7·15	18·849	20 22	14·900	12·350	78·2	74·9	2·28·75	80·4		
7·30	18·849	20·74	15·100	11·900	78·2	74·9	2·28·75	80·4		
7·45	19·158	21·53	15·050	11·875	78·2	74·9	2·23·75	80·3		
8·00	19·673	21·79	14·800	11·350	78·0	74·5	3·26·05	80·0		
8·15	20·567	22·31	14·225	10·800	78·0	74·2	3·43·50	80·0		
8·30	20·017	21·27	14·130	10·450	77·5	74·0	3·14·00	80·0		
8·45	20·292	21·37	13·950	10·150	77·4	74·0	3·34·65	79·9		
9·00	19·811	21·27	13·950	10·100	77·2	74·0	3·49·50	79·7		
9·15	20·222	21·70	13·850	10·050	77·1	73·9	3·15·00	79·5		
9·30	19·880	21 68	14·010	10·100	77·0	73·8	2·32·50	79·5		
9·45	19·948	21·73	14·120	10·150	76·8	73·7	2·23·00	79·5		
10·00	19·124	20·22	14·050	10·020	76·8	73·7	1·45·50	79·5		
10·15	18·299	20·06	14·450	10·600	77·0	73.7	1·45·50	79·5		
10·30	18·339	20·06	14·900	11·150	77·0	73·4	2·05·30	79·4		
10·45	19·468	20·74	14 950	11·500	77·0	73·7	2·37·60	79·0		
11·00	18·093	19·43	16 320	13·340	77·0	73·7	0·47·00	78·8		
11·15	17·612	18·91	17 540	14·330	76·9	73·8	0·33·00	78·8		
11·30	17·201	18·65	17·240	14·000	76·8	73·0	1·20·50	78·7		
11·45	17·270	18·65	16·940	13·750	76·8	72·9	1·35·50	78·5		
12·00	17·064	18·13	16·990	13·800	76·6	72·4	1·28·00	78·4		
12·15	16·209	17·86	16·910	13·650	76·4	72·1	1·16·00	78·2		
12·30	16·209	18 13	16·750	13·550	76·8	72·0	1·22·50	78·2		
12·45	16·209	17·91	16·880	13·620	76·7	72·0	1·23·50	78·2		
13·00	15·623	17·39	16·950	13·700	76·7	72·0	1·02·00	78·2		
13·15	14·798	16·66	17·160	13·930	76·6	72·0	0·30·00	78·2		
13·30	14·111	15·25	18·000	15·000	76·5	72·0	0·41·50	78·0		
13·45	13·219	14·20	17·600	14·200	76·5	71·8	0·04·00	78·0		
14·00	10·814	11·64	17·250	14·100	76·4	72·0	0·44·50	78·2		
14·15	9·747	—	17·200	—	—	—	1·38·00	—		
14·30	9·303	—	17·345	—	—	—	1·00·00	—		
14·45	9·308	—	16·900	—	—	—	0·20·50	—		
15·00	11·088	12·11	16·550	13·20	76·0	72·0	2·03·00	77·6		
15·15	12·188	13·42	16·515	12·97	—	—	3·03.85	—		
15·30	12·463	13·94	17·150	13 97	—	—	2·10·00	—		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
Dec. 19 15 45	13·493	14·99	16·700	13·470	—	—	3·27·50	—		
16·00	13·219	14·99	17·390	14·100	77·6	72·2	3·37·00	77·0		
16·15	14·867	16·14	17·110	13·700	—	—	5·05·00	—		
16·30	15·553	17·28	17·560	14·210	—	—	4·38·00	—		
16·45	17·721	18 44	16·960	13·600	77·6	72·2	5·18·10	77·0		
17·00	16·653	18·13	17·865	14·400	79·0	—	4·01·25	77·0		
17·15	17·339	18·75	17·260	13·850	79·0	—	5·03·50	77·6		
17·30	18·369	19·70	17·500	13·860	79·0	—	4·19·00	77·6		
17·45	18·713	20·48	17·375	13·900	—	—	5·17·25	—		
18·00	19·914	21·32	17·150	13·690	80·4	—	5·18·80	78·3		
18·15	19·468	21·47	17·050	13·460	—	—	5·14·25	—		
18·30	19·948	21·63	17·150	13·400	—	—	4·28·30	—		
18·45	19·883	20·32	16·975	13·380	—	—	2·47·60	—		
19·00	19·056	20·37	17·350	13·870	81·5	—	3·04·30	79·3		
19·15	*	*	*	*	*	*	*	*		
19·30	16·515	17·08	17·075	13·700	81·5	76·9	0·41·00	79·7		
19·45	16·378	17,08	17·050	13·400	82·0	77·0	0·35·90	79·9		
20·00	17·098	18·65	17·350	13·700	82·0	77·2	0·23·40	80·0		
20·15	18·093	19·17	16·750	13·100	82·0	77·6	0·42·00	80·0		
20·30	18·162	19·96	16·000	12·200	82·0	77·9	0·14·00	80·2		
20·45	19·673	18·65	15·610	12·180	82·2	78·0	1·16·50	80·4		
21·00	20·635	21·79	15·130	11·460	82·2	78·0	1·15·00	80·5		
21·15	20·292	21·79	14·800	11·200	82·2	78·0	0·15·00	80·6		
21·30	20·704	21·89	15·000	11·600	82·4	78·0	0·39·00	80·6		
21·45	21·803	23·82	15·190	11·850	82·7	78·0	0·23·60	80·7		
22·00	22.215	24·08	14·090	10·550	82·8	78·2	0·23·65	81·0		
22·15	23·588	24·93	13·550	10·000	82·8	78·4	1·43·75	81·4		
22·30	23·863	25·45	12·950	9·200	82·9	78·4	1·31·00	81·5		
22·45	21·892	26·28	12·790	9·180	82·9	78·6	2·18·00	81·6		
23·00	24·000	25·45	12.400	8·800	83·0	78·4	1·38·00	81·8		
23·15	22·969	24·08	12·190	8·470	83·0	—	1·08·50	82·0		
23·30	23·107	24·30	12·060	8·370	83·0	—	2 05·50	82·0		
23·45	21·738	23·14	11·530	7·870	83·0	—	1·22·75	82·0		
Dec. 20 0·00	23·520	24·71	12·500	8·970	83·0	79·0	2·28·50	82·0		
0·15	24·617	25·81	12·000	8·540	82·9	—	3·06·00	82·4		
0·30	25·236	26·50	11·140	7.700	82·9	—	3·03·00	82·6		
0·45	21·459	—	11·150	—	—	—	0.04·00	—		
1·00	18·987	23·36	11·050	7·600	82·0	78·9	-1·19·50	81·5		
1·15	18·025	19·63	10·435	6·900	—	—	-0.48·50	—		
1·30	18·713	20·06	10·290	6·800	—	—	0·29·50	—		
1·45	17·956	19·32	10·650	7·140	—	—	-0·07·00	—		
2·00	18·713	19·63	10.600	7·200	81.2	77·9	1·06·00	81·8		
2·15	20·773	21.89	10·550	7·110	—	—	2·44·50	—		
2·30	23·520	24·40	11·600	8·100	—	—	3·21·50	—		
2·45	24·000	25·45	11·750	8·400	—	—	3·25·00	—		
3·00	—	23·36	—	7·430	—	77·0	2·04·40	81·7		
3·15	20·429	21·37	10·500	6·750	80·7	76·2	1·00·00	81·7		
3·30	18·575	19·90	10·000	6·500	80·4	76·2	-0·07·50	81·8		
3·45	18·369	19·70	10·200	6·820	80·3	76·0	0·14·50	81·6		
4·00	19·056	21·99	10·800	8·250	80·2	76·0	1·01·50	81·6		
4·15	22·283	23·09	12·950	10·150	80·0	76·0	3·01·00	81·6		
4·30	22·078	22·57	13·150	12·350	79·8	76·0	2·34·50	81·7		
4·45	19·536	20·74	14·975	12·000	79·8	76·0	1·41·50	81·5		
5·00	19.400	20·74	13·250	9·250	79·6	76·0	3·07.25	81·4		
5·15	21·321	22·57	11·500	8·200	79·5	76·0	5·02·75	81·4		
5·30	19·536	22·31	11·460	8·000	79·4	76·0	3·34.75	81·2		
5·45	19·536	22·31	11·100	7·900	79·3	76.0	3·43.50	81·2		
6·00	20·841	22·31	12·220	9·000	79·1	75·9	3·17·70	81·0		
6·15	23·520	24·93	11·750	8·400	79·1	75·8	5·42·60	80·0		
6·30	23·520	24·93	11.975	8·400	79.0	75·7	5·42·60	80·0		

* Lost.

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Sca.	Sca.			t d			
Dec. 20. 6·45	23·554	24·93	12·250	8·500	79°9	75°0	3·32·65	80°8		
7·00	23·244	24·40	12·050	8·100	78·8	74·7	2·48·00	80·8		
7·15	22·833	23·88	11·725	7·950	78·5	74·6	2·48·00	80·6		
7·30	22·833	22·31	11·150	7·600	78·4	74·5	2·36·00	80·4		
7·45	21·012	22·31	11·150	7·409	78·3	74·2	2·03·70	80·4		
8·00	19·748	20·74	12·225	8·700	78·0	74·0	1·01·90	80·4		
8·15	19·605	20·32	13·025	9·000	78·0	74·0	1·01·90	80·4		
8·30	19·605	20·32	13·875	10·500	78·0	74·0	2·14·40	80·5		
8·45	19·748	21·79	14·600	11·600	78·0	74·0	3·39·00	80·5		
9·00	19·811	21·20	14·650	11·440	78·0	74·0	4·29·50	80·5		
9·15	19·673	21·20	14·400	11·300	78·0	74·0	4·00·00	80·5		
9·30	20·360	22·31	14·100	11·000	78·0	74·0	4·14·00	80·7		
9·45	20·773	22·31	13·900	10·830	78·2	74·0	4·14·00	80·7		
10·00	21·116	22·83	13·740	10·800	78·2	74·0	4·00·00	80·7		
10·15	21·116	22·31	13·960	10·900	78·2	74·0	3·26·00	80·7		
10·30	19·400	20·74	13·970	10·980	78·0	74·0	1·21·65	80·7		
10·45	18·162	20·22	13·840	10·850	78·0	74·0	0·43·75	80·5		
11·00	18·713	19·70	14·360	11·650	78·0	73·9	-0·10·55	80·5		
11·15	18·093	19·70	15·550	12·680	78·0	73·9	-0·25·50	80·4		
11·30	18·026	19·96	15·290	12·400	78·0	73·9	1·17·00	80·4		
11·45	19·056	20·32	14·790	11·940	77·9	73·8	2·45·50	80·4		
12·00	18·575	19·70	15·020	12·300	77·9	73·8	-2·35·00	80·4		
12·15	17·682	18·96	15·430	13·650	77·8	73·8	2·14·50	80·3		
12·30	17·407	19·27	15·800	12·900	77·7	73·7	2·30·00	80·2		
12·45	17·612	18·91	15·750	13·000	77·7	73·7	2·24·50	80·2		
13·00	16·996	17·60	15·600	13·100	77·9	73·7	2·01·00	79·7		
13·15	16·034	17·08	15·810	13·400	77·9	73·6	1·42·50	79·7		
13·30	15·966	17·02	15·650	12·900	77·8	73·2	1·42·00	79·7		
13·45	16·240	17·36	15·450	12·700	77·7	73·0	2·17·50	79·6		
14·00	16·653	17·34	15·400	12·620	77·7	72·4	1·20·00	79·6		
14·15	15·897	16·71	15·650	12·700	77·5	72·2	-0·01·50	79·6		
14·30	14·592	15·66	15·370	12·440	77·3	72·3	-0·44·00	79·5		
14·45	14·042	15·40	15·230	12·300	77·6	72·3	-1·23·50	79·3		
15·00	14·179	15·35	15·250	12·300	77·7	73·0	-2·09·00	78·5		
15·15	13·837	15·25	15·200	12·170	77·8	73·0	-1·47·00	78·5		
15·30	13·906	15·09	15·150	12·080	78·0	73·4	-1·43·00	78·4		
15·45	13·562	14·78	15·290	12·200	78·7	73·7	-1·37·00	78·4		
16·00	12·806	13·88	15·350	12·320	79·0	73·7	-1·47·50	78·2		
16·15	12·050	13·42	15·270	12·250	79·2	73·9	-2·00·50	78·2		
16·30	12·188	13·42	15·240	12·250	79·8	74·0	-1·04·00	78·4		
16·45	11·569	12·37	15·325	12·400	80·0	74·2	-0·32·50	78·5		
17·00	11·053	12·11	15·300	12·400	80·2	74·5	-0·01·00	78·5		
17·15	10·471	11·85	15·600	12·800	80·6	74·6	-0·01·00	78·6		
17·30	10·196	11·38	15·700	12·900	81·0	74·9	-0·01·00	78·7		
17·45	9·955	10·81	15·650	12·800	81·2	75·8	-0·01·00	79·0		
18·00	9·372	10·54	15·750	12 910	81·3	75·5	-0·07·90	79·3		
18·15	8·926	10 38	15·990	13·100	81·4	75·9	-1·29·50	79·5		
18·30	8·960	10·28	16·030	13·100	81·5	76·0	-1·20·50	79·5		
18·45	8·960	10·28	16·060	13·290	81·7	76·4	-1·07·00	79·5		
19·00	8·994	9·76	16·060	13·125	81·9	76·9	-1·07·00	79·6		
19·15	8·994	—	16·000	13·100	82·0	77·0	-0·19·45	79·8		
19·30	9·029	10·54	15·960	13·000	82·0	77·3	-0·01·95	79·8		
19·45	9·098	10·29	15·990	13·280	82·1	77·5	-0·01·95	80·0		
20·00	9·715	10·81	16·110	13·350	82·5	77·9	-0·32·10	80·4		
20·15	9·887	11·59	16·190	13·450	82·7	78·0	-1·21·25	80·4		
20·30	10·539	11·85	16·200	13·450	82·8	78·0	-2·03·60	80·5		
20·45	10·916	12·37	16·140	13·450	82·8	78·0	-2·29·50	80·6		
21·00	11·500	12·90	16·140	13·400	82·9	78·0	-3·07·50	80·8		
21·15	11·845	13·16	16·110	13·350	83·0	78·2	-3·18·00	80·9		
21·30	12·290	13·42	16·190	13·300	83·0	78·4	-4·04·25	81·0		
21·45	12·326	13·94	16·120	13 350	83·0	78·4	-4·26·65	81·4		
22·00	13·156	14·47	16·130	13·310	83·0	78·6	-4·46·00	81·4		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
Dec. 20 22·15	13·321	14·47	16·140	13·340	83·0	78·6	5·04·70	81°5		
22·30	13·630	14·99	16·200	13·400	83·2	78·6	5·04·70	81·7		
22·45	13·768	15·09	16·200	13·450	83·3	78·6	5·04·70	81·8		
23·00	14·179	15.51	16·215	13·500	83·4	79·7	5·04·65	82·0		
23·15	14·451	15·92	16·220	13·510	83·4	78·7	5·04·65	82·2		
23·30	14·725	16 56	16·160	13·490	83·4	78·8	5·04·65	82·4		
23·45	14·867	16·56	16·100	13·450	83·4	78·8	5·04·65	82·4		
Dec. 21· 0·00	15·691	17·08	16·100	13·650	83·3	79·0	4·37·60	82·4		
0·15	16·102	17 08	16·160	13·700	83·1	79·0	4·27·00	82·4		
0·30	15·897	17·18	16·150	13·680	83·0	78·0	3·22.00	82·4		
0.45	15·966	17·34	16·300	13 900	82·8	78·0	3·19·50	82·4		
1·00	15·966	17·18	16·300	13·920	82·5	78·0	3·35·50	82·3		
1·15	16 034	17·23	16·390	14·000	82·1	78·0	3·29·50	82·1		
1·30	15·897	17·08	16·440	14·080	81·7	77·7	3·28.00	82·0		
1·45	16·102	17·34	16·550	14·150	81·6	77·2	2·45.00	81·8		
2·00	16·172	17·34	16 650	14·150	81·2	76·4	2·35·50	81·7		
2·15	16·309	17·48	16·500	14·120	81·0	76·3	2·35·50	81·7		
2·30	16·172	17·34	16·540	14·160	80·8	76·1	2·35·50	81·6		
2·45	16·102	17·53	16·600	14·350	80·8	76·0	2·35·50	81·6		
3·00	15·966	17·28	16.700	14·420	80·7	76·0	2·33·50	81·5		
3·15	15·966	17·08	16·720	14·450	80·6	76.0	2·36·00	81·6		
3·30	15·691	16·82	16·675	14·400	80·1	76·0	2·44·50	81·6		
3·45	15·623	16·92	16.700	14·400	80 0	76 0	2·42·50	81·6		
4·00	15·897	17·18	16·550	14·480	79·8	75·8	2·42·50	81·7		
4·15	15·828	17·08	16.810	14·400	79·8	75.8	2·30·00	81·6		
4·30	15·623	16·97	16·840	14·400	79·7	75·7	2·11·00	81·6		
4·45	16·794	17·08	16·975	14·400	79·8	75·4	2·07·75	81·5		
5·00	15·966	17·08	16·950	14·350	79·2	75·0	2·07·75	81·5		
5·15	15·966	17·08	16·990	14·450	79·2	75·0	1·44·50	81·5		
5·30	15·966	17·08	16·995	14·450	79·1	75·0	1·44·50	81·5		
5·45	16·034	17·08	17·050	14·500	79·0	75·0	1·44·50	81·5		
6·00	15·966	17·08	17·225	14·510	79·0	75·0	1·30·50	81·5		
6·15	15·966	17·08	17·100	14·500	79·0	75·0	1·30·50	81·8		
6·30	15·966	17·08	17·105	14·500	79·0	75·0	1·30·50	81·9		
6·45	15·840	17·08	17·200	14·700	79·0	75·0	1·30·50	81·9		
7·00	15·862	17·08	17·290	14·800	79·0	74·8	1·30·50	81·9		
7·15	15·966	17·08	17.190	14·800	79·0	74·7	1·44·60	81·7		
7·30	15·966	17·08	17·220	14·970	79·0	74·5	1·44·60	81·7		
7.45	15·966	17·08	17·225	14·970	79·0	74·4	1·44·60	81·6		
8·00	15·760	17·08	17·300	15·100	79·0	74·4	1·44·60	81·5		
8·15	15·760	17·08	17·275	15·100	79·0	74·2	1·34·50	81·3		
8·30	15 760	17·08	17.275	15·100	78·9	74·2	1·34·50	81·3		
8·45	15·828	17·08	17·250	15·100	78·4	74·2	1·20·50	8·2		
9·00	15·966	17·08	17·210	15·000	78·3	74·2	1·22·00	—		
9·15	15·828	17·08	17·210	15·050	78·3	74·2	1·22·00	81.2		
9·30	16·034	17·13	17·250	15·100	78·3	74·1	1·11·00	81.2		
9·45	15·956	17·08	17·250	15.090	78·3	74·1	1·11·00	81·2		
10·00	15·828	17·08	17·305	15·100	78·1	74·1	1·26·60	81·1		
10·15	15·897	17·08	17·340	15·100	78·1	74·1	2·13·00	81·1		
10·30	15·691	16·72	17·400	15·150	78·1	74 0	3·02·25	81·1		
10·45	15·691	16·72	17·420	15·050	73·0	74·0	3·02·25	80·9		
11·00	15·725	17·08	17·400	15·100	78·0	74·0	3·15·75	80·7		
11·15	15·897	17·08	17·470	15·190	77·9	74·0	2·37·25	80·5		
11·30	15·691	16·72	17·500	15·250	77·9	74·0	2·37·25	80·5		
11·45	15·760	16·72	17·520	15·250	77·9	74·0	2·02·50	80·5		
12·00	15·623	16·72	17·520	15·260	77·9	73·9	2·02·50	80·5		
12·15	15·623	16·72	17·510	15·350	77·9	73·9	2·02·50	80·5		
12·30	15·691	16·72	17·520	15·320	77·9	73·9	2·02·50	80·5		
12·45	15·280	16·50	17·500	15·360	77·8	73·7	2·02·50	80·4		
13·00	15·280	16·56	17·600	15·400	78·0	73·7	2·15·50	80·5		
13·15	15·211	16·50	17·690	15·470	78·0	73·7	2·21·50	80·5		

DISTURBANCE OBSERVATIONS, 1847.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.		Induction.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.	As observed.	As corrected for Declination.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min before Full Time.	2 min. before Full Time.	5½ min. after Full Time.	Full Time.
D. H. M.			Scs.	Scs.			t d			
Dec. 21·13·30	15·280	16·56	17·710	15·500	78·0	73·7	2·25·00	80·6		
13·45	15·348	16·56	17·890	15·590	78·0	73·5	2·29·50	80·5		
14·00	15·553	16·61	17·760	15·470	78·0	73·9	2·44·50	79·5		
14·15	15·623	—	17·730	—	—	—	3·18·50	—		
14·30	15·623	—	17·790	—	—	—	2·44·50	—		
14·45	15·416	—	17·900	—	—	—	1·41·50	—		
15·00	15·348	16·61	17·800	15·400	77·2	73·0	1·26·50	78·5		
15·15	14·936	16·61	17·810	15·470	—	—	1·03·00	—		
15·30	14·936	16·66	18·060	15·490	—	—	1·05·00	—		
15·45	14·936	16·56	18·085	15·510	—	—	1·06·00	—		
16·00	15·280	16·56	18·260	15·600	77·9	73·4	0·48·00	78·0		
16·15	15·348	16·56	18·395	15·600	—	—	1·01·00	—		
16·30	15·416	16·66	18·450	15·600	—	—	1·02·50	—		
16·45	15·553	16·76	18·600	15·660	77·8	73·4	0·27·55	78·0		
17·00	15·760	16·97	18·550	15·600	78·5	74·0	0·07·40	78·2		
17·15	15·485	16·92	18·600	15·610	—	—	−0·07·15	—		
17·30	15·348	16·56	18·700	15·740	—	—	−0·29·80	—		
17·45	14·986	16·30	18·730	15·740	—	—	−0·46·20	—		
18·00	14·867	16·04	18·725	15·700	80·0	75·3	−1·02·25	78·5		
18·15	14·867	16·04	18·775	15·740	—	—	−1·02·25	—		
18·30	14·798	16·04	18·775	15·740	—	—	−1·02·25	—		
18·45	14·867	16·04	18·785	15·770	—	—	−1·02·25	—		
19·00	14·867	16·09	18·750	15·800	81·5	76·4	−1·02·25	79·5		
Dec. 22·23·00	16·653	18·13	18·820	16·025	81·0	77·7	1·27·15	80·8		
23·15	16·653	18·13	18·720	15·970	81·0	77·7	1·20·75	80·9		
23·30	16·515	17·60	18·550	15·810	81·0	77·6	0·40·00	80·8		
23·45	16·034	17·34	18·550	15·980	80·8	77·6	0·29·50	80·5		
Dec. 23·0·00	16·000	17·13	18·450	15·600	80·5	77·1	0·24·50	80·5		
〃 0·15	15·897	16·82	18·395	15·590	80·4	77·1	0·24·50	80·4		
0·30	15·416	16·56	18·340	15·520	80·2	77·1	0·11·00	80·4		
0·45	15·348	16·61	18·425	15·700	80·3	76·4	0·17·50	80·3		
1·00	15·142	16·35	18·400	15·720	80·1	76·2	0·20·80	80·3		
1·15	15·004	16·30	18·450	15·780	80·0	76·1	0·26·00	80·3		
1·30	15·074	16·56	18·620	16·080	80·0	76·0	0·43·50	80·2		
1·45	15·485	16·56	18·635	16·100	79·8	76·0	1·07·00	80·3		
2·00	15·553	16·71	18·765	16·380	79·7	76·0	1·26·50	80·3		

BOMBAY MAGNETICAL OBSERVATIONS.

DAILY OBSERVATIONS OF INCLINATION.

OBSERVATIONS OF INCLINATION, 1847,

Made daily (Sundays excepted) about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES INVERTED. Face of Needle. Direct.		Reversed.		Means.	Monthly Means.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
JAN. 2	17°27′5	18°22′5	18°00′0	18°30′0	18°00′0	19°42′5	18°37′5	18°52′5	18°26′3	
4	17·52·5	19·07·5	17·00·0	18·30·0	17·45·0	19·45·0	18·52·5	20·05·7	18·37·5	
5	18·22·5	19·07·5	18·17·5	19·30·0	17·30·0	20·00·0	17·27·5	19·10·0	18·40·6	
6	17·45·0	19·00·0	17·30·0	18·47·5	16·45·0	19·30·0	17·55·0	18·37·5	18·13·7	
7	18·52·5	18·25·0	18·07·5	18·30·0	16·45·0	20·00·0	18·37·5	18·52·5	18·31·2	
9	17·17·5	19·07·5	17·15·0	18·32·5	18·05·0	19·37·5	19·22·5	18·45·0	18·30·3	
12	18·22·5	18·52·5	18·20·0	19·00·0	18·07·5	19·30·0	18·52·5	18·45·0	18·32·5	
14	17·30·0	17·37·5	19·22·5	18·00·0	18·30·0	19·00·0	19·15·0	16·37·5	18·21·5	
15	18·07·5	18·22·5	17·52·5	18·15·0	18·30·0	18·52·5	18·37·5	16·52·5	18·11·2	
16	19·07·5	17·52·5	16·52·5	18·45·0	17·30·0	19·37·5	18·30·0	19·00·0	18·24·4	18°30′6
18	19·05·0	18·37·5	18·22·5	19·15·0	18·15·0	19·30·0	17·55·0	19·07·5	18·45·9	
19	18·30·0	18·22·5	18·37·5	18·52·5	18·00·0	18·52·5	19·15·0	18·52·5	18·36·6	
25	18·45·0	19·22·5	18·15·0	18·22·5	17·30·0	19·07·5	19·37·5	18·00·0	18·41·2	
26	18·52·5	18·37·5	18·45·0	19·07·5	18·00·0	19·00·0	18·15·0	19·22·5	18·45·0	
27	18·07·5	18·07·5	17·45·0	18·55·0	18·30·0	19·05·0	19·00·0	18·22·5	18·29·0	
28	18·37·5	18·52·5	17·07·5	18·55·0	18·00·0	18·55·0	18·30·0	19·22·5	18·31·9	
29	18·47·5	18·27·5	17·22·5	18·45·0	17·40·0	18·40·0	18 45·0	18·52·5	18·21·9	
FEB. 1	17·55·0	18·37·5	17·20·0	18·30·0	18·22·5	19·15·0	18·45·0	18·57·5	18·27·8	
2	19·10·0	19·45·0	17·15·0	18·15·0	18·05·0	19·15·0	18·25·0	18·55·0	18·30·6	
3	17·45·0	18·32·5	17·15·0	18·47·5	18·15·0	18·40·0	18·22·5	19·27·5	18·23·1	
4	17·15·0	18·07·5	17·40·0	19·00·0	18·15·0	19·55·0	17·45·0	18·37·5	18·19·4	
5	17·22·5	17·15·0	17·22·5	18·45·0	18·05·0	18·15·0	19·00·0	19·15·0	18·10·0	
6	17·52·5	18·00·0	18·30·0	18·07·5	18·30·0	18·15·0	18·45·0	18·45·0	18·22·0	
8	17·17·5	18·00·0	16·52·5	18·15·0	18·15·0	18·05·0	17·57·5	20·07·5	18·06·5	
9	18·52·5	19·07·5	18·07·5	18·20·0	18·15·0	20·00·0	17 52 5	19·22·5	18·48·4	
10	17·30·0	19·30 0	17·37·5	18·30·0	17·50·0	18·52·5	17·30·0	18·22·5	18.12·8	18·25·5

OBSERVATIONS OF INCLINATION, 1847,

Made daily (Sundays excepted) about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES INVERTED. Face of Needle. Direct.		Reversed.		Means.	Monthly Means.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
FEB. 11	17°30·0	19°15·0	17°22·5	18°45·0	18°00·0	19°45·0	18°37·5	19°07·5	18°32·8	
12	18·22·5	18·52·5	17·40·0	18·00·0	18·15·0	19·30·0	18·07·5	19·00·0	18·28·4	
13	17·30·0	19·22·5	17·07·5	18·00·0	18·50·0	19·40·0	17·45·0	19·07·5	18·25·3	
15	17·22·5	19·22·5	18·07·5	19·00·0	20·30·0	19·25·0	18·45·0	19·07·5	18·57·5	
16	17·22·5	17·07·5	18·45·0	17·30·0	19·00·0	19·40·0	19·07·5	18·57·5	18·33·7	
17	18·07·5	18·10·0	18·00·0	18·00·0	18·00·0	18·30·0	18·45·0	18·52·5	18·18·7	
18	18·00·0	18·30·0	17·00·0	17·37·0	19·22·5	18·45·0	17·45·0	19·07·5	18·15·9	
19	18·15·0	19·22·5	18·00·0	18·30·0	18·00·0	18·37·5	17·45·0	18·00·0	18·18·7	
20	17·22·5	19·07·5	18·45·0	19·22·5	20·00·0	18·22·5	18·15·0	17·37·5	18·36·9	
22	17·15·0	19·15·0	18·52·5	18·30·0	18·15·0	17·52·5	18·30·0	18·50·0	18·25·0	
23	17·22·5	18·10·0	18·07·5	17·55·0	17·52·5	18·30·0	19·00·0	17·45·0	18·05·3	
24	17·52·5	20·07·5	19·22·5	18·15·0	18·37·5	18·00·0	17·00·0	17·45·0	18·22·5	
25	17·52·5	18·37·5	19·37·5	19·22·5	17·37·5	19·37·5	19·07·5	17·40·0	18·41·5	
26	18·37·5	18·37·5	18·15·0	18·30·0	17·45·0	18·30·0	18·30·0	17·22·5	18·15·9	
27	17·37·5	18·37·5	18·15·0	18·45·0	17·52·5	19·15·0	19·15·0	18·22·5	18·33·7	
MARCH 1	20·07·5	18·30·0	19·15·0	18·30·0	18·45·0	18·45·0	17·52·5	18·55·0	18·50·0	
2	18·20·0	19·37·5	19·07·5	18·30·0	17·30·0	19·15·0	18·30·0	18·45·0	18·41·9	
3	18·27·5	20·07·5	17·37·5	19·00·0	19·15·0	17·45·0	18·25·0	18·52·5	18·41·2	
4	18·00·0	19·22·5	18·22·5	19·00·0	17·45·0	19·30·0	17·30·0	18·22·5	18·29·0	
5	18·45·0	19·22·5	18·37·5	18·30·0	17·30·0	19·10·0	17·37·5	18·45·0	18·32·2	
6	18·15·0	20·07·5	18·45·0	18·37·5	18·00·0	19·15·0	18·30·0	18·37·5	18·45·9	
8	18·00·0	19·07·5	18·30·0	18·30·0	18·15·0	19·22·5	18·45·0	18·37·5	18·39·0	
9	17·30·0	20·07·5	18·22·5	18·00·0	18·15·0	19·00·0	16·37·5	18·52·5	18·21·2	
10	18·15·0	19·45·0	18·52·5	18·37·5	18·15·0	19·00·0	18·22·5	19·37·5	18·50·6	
11	17·30·0	19·52·5	18·52·5	18·30·0	18·30·0	19·30·0	18·15·0	18·37·5	18·42·2	18°33·5
12	17·45·0	19·22·5	18·57·5	18·45·0	19·00·0	18·45·0	18·15·0	18·45·0	18·41·9	
13	18·30·0	19·30·0	18·37·5	19·07·5	18·27·5	19·15·0	16·00·0	18·37·5	18·30·6	
15	17·30·0	19·07·5	17·07·5	18·15·0	18·00·0	19·30·0	19·15·0	18·37·5	18·25 8	
16	18·22·5	18·37·5	18·22·5	18·37·5	18·52·5	19·00·0	18·15·0	18·45·0	18·37 0	
17	18·07·5	18·30·0	18·30·0	17·52·5	18·52·5	18·37·5	18·30·0	18·45·0	18·28·1	
18	18·07·5	20·07·5	19·45·0	17·30·0	18·00 0	18·00·0	18·52·5	19·22·5	18·43·1	
19	18·15·0	18·30·0	18·37·5	18·15·0	18·22·5	18·07·5	19·07·5	19·22·5	18·34·7	
20	19·00·0	18·45·0	18·45·0	18·15·0	18·52·5	19·22·5	19·30·0	18·22·5	18·51·2	
22	17·45·0	18·37·5	18·00·0	18·00·0	20·15·0	18·30·0	19·37·5	19·22·5	18·43·9	
23	17·37·5	18·52·5	18·22·5	17·45·0	18·45·0	18·00·0	19·22·5	19·07·5	18·29·0	
24	17·22·5	18·00·0	18·07·5	17·37·5	20·00·0	18·37·5	19·45·0	19·22·5	18·36·5	
25	17·15·0	19·30·0	18·15·0	17·00·0	18·00·0	19·52·5	18·50·0	19 30·0	18·27·5	
26	17·00·0	18·52·5	18·37·5	18·30·0	18·00·0	19·45·0	19·00·0	19·15·0	18·37·5	
27	18·30·0	18·22·5	19·30·0	19·37·5	18·52·5	19·30·0	19·45·0	19·07·5	19·09·4	
29	16·45·0	19·07·5	17·37·5	18·00·0	18·45·0	19·00·0	19·00·0	18·52·5	18·23·4	
30	18·00·0	18·52·5	17·37·5	17·07·5	19·41·0	19·22·5	19·56·0	19·88·5	18·44·4	
31	17·45·0	18·37·5	17·45·0	18·00·0	19·07·5	19·30·0	19·45·0	19·22·5	18·44·0	
APRIL 1	16·45·0	20·15·0	18·22·5	18·05·0	19·22·5	20·00·0	17·52·5	19·15·0	18·44·7	
2	18·15·0	18 22·5	18·07·5	18·15·0	19·07·5	19·52·5	19·45·0	18·07·5	18·44·0	
3	16·52·5	17·30·0	18·12·5	17·15·0	18·45·0	20·00·0	19·00·0	19·45·0	18·25·0	
5	17·30·0	19·07·5	17·37·5	17·45·0	19·37·5	18·15·0	19·07·5	19·52·5	18·36·6	
6	17·23·0	18·19·0	17·22·5	17·15·0	17·30·0	18·26·5	16·45·0	19·00·0	17·45·0	
7	17·45·0	19·37·5	17·05·0	18·45·0	19·27·5	19·52·5	19·00·0	19·52·5	18·48·1	
8	17·30·0	19·22·5	18·30·0	18·00·0	19·15·0	19·52·5	19·45·0	19·07·5	18·57·8	
9	17·15·0	18·15·0	18·22·5	18·07·5	17·45·0	20·07·5	18·00·0	19·30·0	18·27·8	
10	17·30·0	18·52·5	17·10·0	17·30·0	19·37·5	19·52·5	19·15·0	18·52·5	18·35·0	
12	18·00·0	17·52·5	17·00·0	18·15·0	19·07·5	19·30·0	19·00·0	19·52·5	18·34·7	

OBSERVATIONS OF INCLINATION, 1847,

Made daily (Sundays excepted) about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct. a	Direct. a'	Reversed. a''	Reversed. a'''	POLES INVERTED. Face of Needle. Direct. b	Direct. b'	Reversed. b''	Reversed. b'''	Means.	Monthly Means.
April 13	16°45·0	18°52·5	17°37·5	17°52·5	19°22·5	19°15·0	19°00·0	19°45·0	18°38·7	
14	17·25·0	18·22·5	18·00·0	18·07·5	19·07·5	20·00·0	19·37·5	18·37·5	18·39·7	
15	17·15·0	18·07·5	18·07·5	18·15 0	19·30·0	19·45·0	19·37·5	20·15·0	18·51·5	
16	17·15·0	18·07·5	18·07·5	18·15·0	18·22·5	19·15·0	18·45·0	18·22·5	18·18·7	18°27·9
17	17·00·0	18·37·5	17·37·5	17·45·0	18·07·5	18·45·0	19·00·0	18·52·5	18·13·1	
19	17·20·0	17·17·5	18·07·5	18·00·0	17·52·5	19·22·5	19·00·0	19·37·5	18·19·7	
20	16·30·0	18·22·5	18·07·5	16·30·0	18·52·5	19·00·0	19·00·0	19·22·5	18·13·1	
21	16·15·0	17·30·0	17·52·5	16·45·0	17·52·5	19·15·0	19·00·0	19·22·5	17·59·0	
22	16·45·0	18·37·5	17·45·0	17·37·5	17·45·0	19·30·0	19·15·0	19·22·5	18·19·7	
23	17·15·0	18·22·5	17·45·0	17·37·5	18·37·5	19·30·0	19·00·0	19·15·0	18·25·3	
24	16·45·0	18·52·5	18·15·0	17·30·0	17·45·0	19·00·0	19·30·0	19·30·0	18·23·1	
25	16·55·0	18·22·5	17·45·0	17·45·0	19·25·0	19·30·0	19·15·0	19·30·0	18·33·4	
26	17·00·0	18·37·5	17·37·5	18·07·5	19·00·0	18·45·0	19·30·0	19·30·0	18·30·9	
28	17·00·0	18·07·5	17·37·5	17·45·0	18·07·5	20·00·0	19·00·0	20·00·0	18·27·2	
29	17·00·0	17·52·5	17·22·5	18·00·0	18·45·0	19·52·5	18·22·5	19·45·0	18·22·5	
30	16·30·0	18·07·5	17·22·5	18·00·0	18·00·0	19·52·5	18·52·5	19·15·0	18·15·0	
May 1	17·00·0	18·07·5	17·45·0	17·45 0	19·00·0	19·07·5	19·00·0	19·37·5	18·25·3	
3	17·37·5	17·45·0	17·52·5	17·52·5	17·15·0	17·52·5	17·00·0	16·52·5	17·29·0	
4	17·00·0	18·15·0	17·37·5	17·45·0	19·45·0	18·45·0	20·07·5	18·15·0	18·26·7	
5	16·45·0	17·52·5	17·52·5	17·45·0	18·07·5	19·15·0	18·15·0	19·45·0	18·12·2	
6	17·00·0	17·45·0	17·15·0	17·37·5	18·30·0	19·15·0	19·15·0	19·52·5	18·18·7	
7	17·30·0	18·07·5	17·37·5	17·45·0	18·00·0	19·15·0	19·00·0	19·37·5	18·21·5	
8	16·45·0	18·00·0	17·37·5	18·00·0	18·45·0	19·30·0	19·15·0	19·52·5	18·28·1	
10	16·45·0	18·37·5	17·52·5	18·30·0	19·07·5	19·30·0	18·45·0	19·52·5	18·37·5	
11	18·15·0	17·07·5	17·30·0	17·22·5	18·52·5	19·00·0	19·30·0	19·37·5	18·24·4	
12	16·45·0	19·07·5	17·00·0	17·30·0	18·45·0	19·45·0	18·45·0	19·52·5	18·26·2	
13	17·15·0	17·52·5	17·22·5	17·15·0	18·45·0	19·45·0	19·15·0	19·07·5	18·19·7	
14	16·52·5	17·07·5	17·52·5	17·30·0	19·15·0	19·15·0	19·00·0	19·30·0	18·17·8	
15	17·45·0	17·15·0	17·37·5	18·00·0	19·30·0	18·0·00	19·30·0	18·30·0	18·15·9	
17	17·00·0	17·52·5	17·45·0	17·30·0	18·52·5	20·00·0	18·45·0	19·37·5	18·25·3	18·15·0
18	18·30·0	17·37·5	17·45·0	16·15·0	19·22·5	18·45·0	19·00·0	20·15·0	18·26·2	
19	17·15·0	18·07 5	16·45·0	18·07·5	18·22·5	18·45·0	18·45·0	19·22 5	18·11·2	
20	16·45·0	17·52·5	17·07·5	17·15·0	18·07·5	18·45·0	18·30·0	19·00·0	17·55·3	
21	17·00·0	17·07·5	17·37·5	17·30·0	18·22·5	19·00·0	18·30·0	19·52·5	18·07·5	
22	17·15·0	19·45·0	17·37·5	18·15·0	18·30·0	18·45·0	19·45·0	19·37·5	18·41·2	
24	17·00·0	17·07·5	17·07·5	17·00·0	19·15·0	19·52·5	19·37·5	19·00·0	18·15·0	
25	16·30·0	18·30·0	17·37·5	17·15·0	19·52·5	19·15·0	18·45·0	19·15·0	18·22·5	
26	17·15·0	18·22·5	18·22·5	17·30·0	18·30·0	19·52·5	19·30·0	18·07·5	18·26·2	
27	17·45·0	18·22·5	18·07·5	17·30·0	18·15·0	19·07·5	19·00·0	19·37·5	18·28·1	
28	17·30·0	18·07·5	17·37·5	18·00·0	19·15·0	18·52·5	18·15·0	19·00·0	18·19·7	
29	17·30·0	18·52·5	17·07·5	18·00·0	18·37·5	19·30·0	19·30·0	19·52·5	18·37·5	
31	16·15·0	18·07·5	17·15·0	18·00·0	18·15·0	18·45·0	19·00·0	19·37·5	18·09·4	
June 1	16·30·0	17·22·5	17·37·5	17·30·0	18·22·5	19·00·0	19·15·0	19·30·0	18·08·4	
2	17·00·0	18·22·5	18 00·0	17·30·0	18·07·5	19·0·00	18·45·0	18·52·5	18·12·2	
3	17·00·0	18·52·5	17·22·5	17·30·0	18·22·5	19·15·0	18·45·0	18·52·5	18·14·4	
4	17·15·0	18·22·5	17·45·0	17·52·5	18·37·5	18·45·0	18·45·0	18·52·5	18·16·9	
5	17·15 0	17·45·0	17·37·5	17·52·5	17·37·5	19·15·0	19·00·0	19·07·5	18·09·4	
7	17·00·0	19·07·5	18·52·5	17·30 0	19·07·5	19·45·0	18·45·0	19·37·5	18·43·1	
8	17·00 0	19·07·5	17·52·5	17·15·0	18·52·5	19·30·0	19·07·5	19·15·0	18·30·0	
9	16·45·0	18 30·0	18·22·5	16·15·0	18·52 5	19·30·0	19·00·0	19·22·5	18·19·7	
10	17·30·0	18·37·5	17·45·0	17·00·0	18·52·5	19·15·0	19·07·5	19·15·0	18·25·3	
11	17·30·0	17 22·5	18·22·5	17·15·0	18·52 5	18·45·0	18·30·0	18·52·5	18·11·0	

OBSERVATIONS OF INCLINATION, 1847.

Made daily (Sundays excepted) about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES INVERTED. Face of Needle. Direct.		Reversed.		Means.	Monthly Means.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
JUNE 12	17°45·0	18°22·5	18°22·5	17°15·0	18°37·5	19°30·0	18°30·0	18°22·5	18°20·6	
14	17·30·0	18·22·5	18·07·5	17·15·0	19·07·5	18·30·0	19·15·0	18·37·5	18·20·6	
15	17·30·0	18·07·5	17·00·0	17·15·0	18·37·5	19·00·0	18·45·0	18·37·5	18·06·6	
16	17·45·0	18·07·5	18·07·5	17·22·5	18·52·5	18·30·0	18·45·0	18·07·5	18·12·2	
17	17·00·0	18·22·5	18·07·5	17·30·0	18·52·5	19·00·0	18·45·0	18·52·5	18·18·7	18°18·5
18	17·37·5	17·30·0	18·00·0	17·30·0	19·07·5	19·15·0	19·30·0	18·30·0	18·22·5	
19	17·15·0	18·22·5	18·37·5	17·30·0	18·37·5	19·30·0	18·45·0	18·07·5	18·20·6	
21	17·45·0	18·15·0	18·37·5	17·45·0	18·45·0	18·30·0	19·15·0	18·37·5	18·26·2	
22	18·15·0	18·15·0	18·22·5	18·15·0	18·52·5	18·30·0	19·07·5	18·37·5	18·31·9	
23	17·37·5	18·15·0	18·45·0	17·52·5	18·52·5	18·30·0	19·07·5	18·37·5	18·27·2	
24	17·15·0	17·52·5	17·07·5	17·45·0	19·22·5	19·00·0	18·45·0	19·07·5	18·16·9	
25	17·22·5	17·37·5	17·37·5	17·07·5	20·00·0	18·52·5	18·37·5	18·00·0	18·09·0	
26	17·45·0	18·30·0	17·52·5	16·45·0	18·22·5	19·20·0	18·15·0	18·45·0	18·25·0	
28	17·52·5	17·52·5	18·30·0	17·30·0	18·37·5	18·15·0	18·45·0	13·22·5	18·13·1	
29	18·00·0	17·07·5	18·07·5	17·00·0	19·37·5	19·00·0	19·15·0	18·07·5	18·16·9	
30	18·15·0	17·37·5	17·37·5	17·22·5	18·22·5	18·45·0	18·22·5	18·00·0	18·02·8	
JULY 1	17·45·0	17·07·5	18·07·5	17·07·5	18·22·5	18·45·0	19·15·0	19·22·5	18·14·0	
2	18·00·0	17·37·5	18·37·5	17·30·0	18·37·5	18·30·0	19·00·0	18·07·5	18·07·5	
3	18·00·0	18·07·5	18·15·0	18·30·0	17·15·0	17·52·5	18·22·5	17·00·0	17·55·3	
5	18·00·0	17·30·0	18·22·5	17·15·0	18·07·5	19·15·0	18·45·0	17·52·5	18·08·4	
6	18·15·0	16·37·5	18·22·5	17·22·5	18·15·0	18·20·0	18·52·5	18·22·5	18·03·4	
7	17·30·0	19·22·5	18·00·0	16·52·5	18·52·5	19·00·0	18·30·0	18·37·5	18·12·5	
8	17·45·0	17·37·5	17·45·0	16·52·5	18·07·5	17·30·0	18·15·0	18·22·5	17·46·9	
9	17·00·0	17·07·5	17·45·0	17·00·0	18·37·5	18·00·0	19·22·5	17·22·5	17·46·9	
10	17·00·0	17·52·5	17·30·0	17·00·0	18·07·5	19·07·5	18·07·5	18·22·5	17·52·5	
12	17·00·0	17·37·5	17·52·5	16·52·5	18·22·5	19·00·0	18·52·5	17·37·5	17·54·4	
13	17·30·0	18·37·5	18·30·0	17·45·0	18·45·0	18·22·5	19·07·5	18·15·0	18·21·6	
14	17·30·0	18·52·5	17·52·5	17·37·5	18·37·5	19·30·0	19·22·5	18·37·5	18·30·0	
15	16·45·0	18·37·5	18·07·5	17·30·0	19·30·0	18·45·0	18·22·5	19·45·0	18·25·3	18·10·5
16	17·30·0	18·00·0	18·22·5	17·30·0	17·37·5	19·00·0	19·07·5	18·37·5	18·11·9	
17	17·00·0	18·22·5	18·07·5	17·00·0	18·30·0	18·52·5	18·37·5	18·22·5	18·06·6	
19	17·15·0	18·22·5	19·15·0	16·30·0	20·00·0	18·15·0	19·30·0	18·07·5	18·24·4	
21	18·37·5	19·15·0	19·30·0	18·22·5	17·30·0	19·07·5	18·30·0	17·00·0	18·29·0	
22	17·30·0	18·07·5	19·15·0	17·00·0	18·52·5	19·00·0	18·30·0	19·22·5	18·27·2	
23	17·15·0	17·52·5	18·22·5	17·30·0	18·37·5	19·15·0	19·30·0	19·37·5	18·27·5	
24	17·22·5	17·37·5	17·37·5	17·52·5	20·22·5	19·00·0	19·07·5	19·22·5	18·32·5	
26	17·00·0	16·52·5	17·15·0	18·30·0	19·00·0	17·00·0	18·37·5	18·22·5	17·49·7	
27	17·30·0	17·22·5	18·45·0	17·15·0	17·30·0	18·22·5	18·37·5	17·15·0	17·49·7	
28	17·15·0	19·07·5	18·22·5	17·30·0	19·22·5	19·15·0	18·30·0	19·22·5	18·35·6	
29	18·30·0	17·37·5	18·45·0	17·30·0	17·52·5	18·15·0	19·07·5	18·52·5	18·15·0	
30	17·30·0	17·07·5	18·07·5	17·00·0	17·52·5	19·00·0	18·30·0	19·07·5	18·01·9	
31	17·15·0	18·22·5	18·45·0	17·00·0	18·15·0	17·45·0	18·37·5	18·22·5	18·02·8	
AUG. 3	16·45·0	18·37·5	18·00·0	16·15·0	19·07·5	18·37·5	19·15·0	17·52·5	18·03·7	
4	16·45·0	18·07·5	18·00·0	16·30·0	18·22·5	18·30·0	19·15·0	18·07·5	17·57·2	
5	17·30·0	17·37·5	17·30·0	17·00·0	18·22·5	19·15·0	19·45·0	18·30·0	18·11·2	
6	17·30·0	18·07·5	18·45·0	17·00·0	19·07·5	17·45·0	18·22·5	18·00·0	18·04·7	
7	16·45·0	16·07·5	18·45·0	16·52·5	18·37·5	19·00·0	19·22·5	18·37·5	18·00·9	
9	16·30·0	18·22·5	17·22·5	18·30·0	18·52·5	18·45·0	18·52·5	18·22·5	18·02·3	
10	16·30·0	18·22·5	17·37·5	16·30·0	17·07·5	18·30·0	18·07·5	18·00·0	17·33·7	
11	17·30·0	18·37·5	18·45·0	16·15·0	17·45·0	17·30·0	17·52·5	1·807·5	17·47·8	
12	17·30·0	18·07·5	18·22·5	17·15·0	18·22·5	18·30·0	18·30·0	19·52·5	18·18·7	
13	17·52·5	18·22·5	18·52·5	17·30·0	18·37·5	16·15·0	18·30·0	18·22·5	18·02·8	
14	17·45·0	18·07·5	18·37·5	17·22·5	18·52·5	19·30·0	18·30·0	18·37·5	18·21·5	
15	18·22·5	17·52·5	18·22·5	17·30·0	18·37·5	17·00·0	18·00·0	17·22·5	17·53·4	18·02·0
17	17·45·0	17·52·5	18·07·5	17·45·0	18·07·5	18·30·0	18·45·1	19·37·5	18·18·1	
18	17·15·0	18·07·5	19·00·0	18·15·0	18·37·5	19·15·0	18·00·0	18·37·5	18·23·4	
19	17·30·0	18·22·5	18·15·0	17·15·0	19·07·5	18·30·0	18·52·5	17·37·5	18·11·2	

OBSERVATIONS OF INCLINATION, 1847,

Made daily (Sundays excepted) about ½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES INVERTED. Face of Needle. Direct.		Reversed.		Means.	Monthly Means.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
Aug. 20	17°45·0	17°22·5	17°15·0	16°37·5	18°37·5	17°00·0	18°22·5	17°52·5	17°51·6	
21	17·30·0	17·52·5	18·00·0	17·00·0	17·37·5	18·30·0	18·22·5	17·07·5	17·45·0	
23	17·45·0	18·07·5	18·15·0	17·15·0	18·07·5	17·45·0	18·30·0	17·07·5	17·51·6	
24	17·15·0	17·30·0	18·15·0	17·15·0	16·37·5	18·15·0	19·07·5	19·15·0	17·56·2	
25	16·45·0	17·22·5	18·45·0	16·45·0	17·52·5	17·15·0	18·00·0	18·07·5	17·36·6	
26	17·00·0	18·22·5	19·00·0	16·37·5	18·22·5	18·15·0	18·22·5	18·00·0	17·52·5	
27	17·45·0	18·22·5	18·30·0	17·45·0	17·52·5	18·30·0	19·15·0	17·07·5	18·08·4	
28	17·45·0	17·52·5	18·45·0	17·15·0	16·37·5	18·00·0	18·37·5	17·07·5	17·45·0	
30	17·00·0	17·52·5	18·30·0	17·45·0	20·07·5	17·45·0	19·45·0	17·37·5	18·18·8	
31	17·15·0	18·37·5	18·37·5	16·45·0	17·37·5	19·30·0	19·15·0	19·22·5	18·23·4	
Sept. 1	17·15·0	18·00·0	19·00·0	17·00·0	18·37·5	19·30·0	18·30·0	17·30·0	18·10·3	
2	17·10·0	17·45·0	18·15·0	16·00·0	18·07·5	18·30·0	19·00·0	17·37·5	17·48·1	
3	16·15·0	17·22·5	18·37·5	17·00·0	18·52·5	16·15·0	19·15·0	17·22·5	17·37·5	
4	18·30·0	18·22·5	18·15·0	15·45·0	16·52·5	18·52·5	18·52·5	17·45·0	17·52·5	
6	17·30·0	18·07·5	18·30·0	17·15·0	18·30·0	17·22·5	18·52·5	19·30·0	18·12·2	
7	17·15·0	18·07·5	17·30·0	16·30·0	18·22·5	18·15·0	18·30·0	18·07·5	17·49·7	
8	17·30·0	18·22·5	18·22·5	17·15·0	18·07·5	17·15·0	19·15·0	17·52·5	18·00·0	
9	18·00·0	17·37·5	18·45·0	17·15·0	17·30·0	19·00·0	18·22·5	19·00·0	18·11·2	
10	17·30·0	18·00·0	19·22·5	17·22·5	18·22·5	17·15·0	18·30·0	17·52·5	17·54·4	
11	18·37·5	17·15·0	18·52·5	17·15·0	18·22·5	17·30·0	18·00·0	17·52·5	17·58·1	
13	16·52·5	17·52·5	18·22·5	17·00·0	18·52·5	18·45·0	18·07·5	18·15·0	18·00·9	
14	19·15·0	17·52·5	18·22·5	17·30·0	17·52·5	17·45·0	18·00·0	17·52·5	18·08·7	
15	17·45·0	18·52·5	19·00·0	17·15·0	17·52·5	18·15·0	18·52·5	18·52·5	18·20·6	18°03·2
16	18·00·0	18·00·0	19·07·5	17·00·0	18·22·5	18·30·0	18·52·5	17·22·5	18·09·4	
17	17·22·5	17·45·0	17·30·0	18·30·0	19·22·5	17·15·0	18·30·0	18·52·5	18·08·4	
18	18·37·5	18·30·0	18·00·0	18·45·0	17·30·0	18·22·5	18·30·0	18·00·0	18·16·9	
20	17·30·0	18·52·5	18·15·0	17·15·0	18·52·5	18·22·5	18·52·5	17·07·5	18·08·4	
21	17·00·0	18·22·5	17·52·5	17·52·5	18·37·5	17·37·5	18·15·0	17·22·5	17·52·5	
22	17·00·0	19·22·5	19·15·0	17·15·0	18·15·0	18·30·0	18·30·0	18·22·5	18·18·7	
23	16·30·0	18·07·5	18·15·0	17·15·0	17·52·5	17·30·0	18·30·0	17·22·5	17·40·3	
24	18·00·0	18·22·5	18·22·5	17·15·0	18·37·5	18·45·0	18·52·5	19·07·5	18·25·4	
25	17·30·0	18·22·5	19·00·0	17·22·5	18·37·5	18·00·0	17·52·5	18·15·0	18·07·5	
27	18·00·0	18·22·5	17·30·0	17·37·5	17·52·5	19·00·0	17·45·0	18·52·5	18·05·6	
28	17·45·0	18·22·5	19·00·0	17·30·0	18·07·5	17·45·0	19·00·0	18·07·5	18·12·2	
29	17·30·0	18·07·5	18·30·0	17·15·0	17·37·5	18·37·5	18·45·0	18·00·0	18·02·8	
30	18·00·0	18·07·5	18·30·0	17·30·0	17·52·5	18·00·0	18·22·5	17·07·5	17·56·2	
Oct. 1	17·00·0	17·37·5	19·00·0	17·07·5	18·07·5	18·45·0	18·37·5	18·00·0	18·01·9	
2	17·45·0	18·37·5	18·30·0	17·15·0	17·22·5	18·45·0	19·07·5	18·15·0	18·12·2	
4	17·15·0	18·07·5	17·45·0	17·15·0	18·22·5	18·45·0	19·37·5	16·15·0	17·47·8	
5	17·00·0	18·22·5	18·15·0	16·45·0	18·37·5	18·30·0	18·45·0	18·37·5	18·06·5	
6	18·15·0	17·00·0	17·37·5	17·30·0	17·52·5	19·30·0	19·15·0	17·52·5	18·06·3	
7	18·07·5	18·15·0	17·45·0	18·22·5	18·07·5	17·15·0	19·00·0	18·52·5	18·13·1	
8	17·45·0	18·15·0	18·07·5	17·30·0	18·52·5	18·15·0	18·45·0	18·07·5	18·12·2	
9	17·30·0	18·22·5	18·30·0	17·15·0	18·52·5	18·45·0	18·37·5	18·22·5	18·16·9	
11	17·45·0	18·52·5	18·52·5	17·45·0	18·22·5	19·15·0	18·30·0	18·22·5	18·28·1	
12	18·00·0	18·22·5	18·37·5	17·15·0	17·22·5	18·45·0	18·45·0	17·22·5	18·07·5	
13	17·30·0	17·52·5	18·45·0	19·00·0	18·22·5	19·45·0	19·15·0	18·22·5	18·36·6	
14	17·15·0	19·52·5	18·15·0	18·30·0	17·45·0	18·52·5	19·00·0	17·45·0	18·24·4	
15	18·00·0	18·22·5	19·15·0	17·30·0	18·37·5	18·00·0	18·45·0	18·37·5	18·23·4	
16	18·15·0	18·37·5	18·45·0	17·45·0	18·37·5	17·00·0	18·15·0	18·07·5	18·10·3	
18	18·52·5	17·30·0	18·00·0	18·07·5	19·22·5	18·15·0	19·07·5	17·52·5	18·23·4	18·11·7
19	16·52·5	18·45·0	19·07·5	17·45·0	17·45·0	17·37·5	18·37·5	17·30·0	18·00·0	
20	17·45·0	18·15·0	18·52·5	17·52·5	17·45·0	18·37·5	19·00·0	17·30·0	18·12·2	
21	18·15·0	19·30·0	19·00·0	17·00·0	19·52·5	18·40·0	18·50·0	18·55·0	18·47·2	
22	18·37·5	18·37·5	18·15·0	19·45·0	16·52·5	17·45·0	17·15·0	19·15·0	18·17·8	
23	18·15·0	17·37·5	19·15·0	17·45·0	16·45·0	18·07·5	18·15·0	17·30·0	17·56·2	
25	16·45·0	17·30·0	18·37·5	17·00·0	17·30·0	17·37·5	18·30·0	17·22·5	17·36·6	

OBSERVATIONS OF INCLINATION, 1847,

Made daily (Sundays excepted) about 1½ hour before Noon.

Date. Bombay Mean Time.		POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES INVERTED. Face of Needle. Direct.		Reversed.		Means.	Monthly Means.
		a.	a′	a″	a‴	b	b′	b″	b‴		
Oct.	26	17°30·0	17°22·2	19°15·0	17°45·0	18°22·5	17°00·0	17°45·0	17°52·5	17°51·5	
	27	18·15·0	17·52·5	18·52·5	18·00·0	19·22·5	19·37·5	18·15·0	18·07·5	18·25·3	
	28	18·00·0	17·22·5	19·30·0	18·00·0	19·22·5	18·15·0	18·22·5	17·37·5	18·11·2	
	29	18·00·0	17·37·5	18·00·0	18·15·0	18·07·5	16·00·0	18·52·5	17·52·5	17·50·6	
	30	17·37·5	19·22·5	18·15·0	17·45·0	18·07·5	18·15·0	18·30·0	18·22·5	18·24·4	
Nov.	1	18·00·0	18·22·5	19·22·5	18·00·0	17·30·0	17·00·0	18·30·0	18·07·5	18·02·8	
	2	17·45·0	18·37·5	18·37·5	17·52·5	19·07·5	18·15·0	19·07·5	17·07·5	18·18·7	
	3	18·52·5	18·30·0	20·00·0	18·15·0	18·37·5	18·00·0	18·00·0	18·22·5	18·38·4	
	4	18·00·0	18·37·5	19·25·0	18·00·0	18·22·5	19·00·0	18·15·0	18·07·5	18·28·4	
	5	17·30·0	17·52·5	18·22·5	17·15·0	18·00·0	18·37·5	19·07·5	18·00·0	18·05·6	
	6	17·37·5	17·30·0	18·07·5	18·00·0	17·37·5	18·07·5	18·22·5	17·37·5	17·52·5	
	8	18·00·0	18·37·5	19·22·5	17·45·0	17·30·0	17·15·0	18·00·0	18·07·5	18·08·4	
	9	18·00·0	18·52·5	19·22·5	18·00·0	17·37·5	18·15·0	18 15·0	17·07·5	18·18·7	
	10	18·15·0	19·00·0	19·15·0	17·37·5	17·52·5	17·45·0	18·15·0	17·22·5	18·10·3	
	11	18·45·0	18·52·5	19·37·5	17·45·0	18·22·5	18·45·0	18·15·0	18·00·0	18·32·8	
	12	18·00·0	18·22·5	18·15·0	18·15·0	17·52·5	18·30·0	18·45·0	17·22·5	18·10·3	
	13	18·15·0	18·37·5	19·37·5	18·00·0	18·37·5	18·30·0	18·07·5	17·37·5	18·25·3	
	15	17·00·0	18·45·0	19·15·0	18·00·0	18·22·5	18·07·5	18·30·0	17·22·5	18·10·3	18°18·5
	16	18·30·0	19·07·5	19·15·0	17·30·0	19·07·5	18·00·0	18·30·0	18·22·5	18·32·8	
	17	18·45·0	18·52·5	18·30·0	18·00·0	18·22·5	18·30·0	18·30·0	17·22·5	18·21·5	
	18	18·00·0	19·07·5	19·15·0	17·45·0	17·52·5	17·45·0	17·15·0	17·52·5	18·06·5	
	19	18·15·0	18·52·5	19·45·0	18·15·0	18·22·5	18·00·0	18·45·0	17·22·5	18·28·4	
	20	18·07·5	18·22·5	19·10·0	18·00·0	18·22·5	18·30·0	18·30·0	18·22·5	18·25·6	
	22	18·00·0	18·52·5	19·30·0	18·00·0	18·37·5	18·45·0	18·30·0	17·22·5	18·19·7	
	23	18·45·0	18·07·5	19·30·0	18·00·0	17·37·5	18·00·0	18·30·0	17·07·5	18·12·2	
	24	18·15·0	19·37·5	19·45·0	18·00·0	18·22·5	18·45·0	18·30·0	17·22·5	18·34·7	
	25	18·00·0	19·22·5	19·00·0	17·45·0	18·37·5	18·00·0	18·00·0	17·37·5	18·17·8	
	26	18·30·0	18·22·5	19·15·0	18·00·0	18·22·5	18·15·0	18·30·0	17·22·5	18·19·7	
	27	18·15·0	18·37·5	18·45·0	18·00·0	18·00·0	19·37·5	19·37·5	18·30·0	18·32·8	
	29	18·15·0	18·22·5	19·30·0	18·00·0	17·52·5	18·15·0	17·22·5	17·52·5	18·11·2	
	30	18·15·0	19·22·5	19·00·0	18·15·0	18·00·0	18·22·5	18·30·0	17·00·0	18·20·6	
Dec.	1	18·30·0	18·37·5	18·45·0	18·00·0	17·52·5	17·45·0	18·25·0	17·15·0	18·09·4	
	2	17·15·0	18·22·5	18·22·5	18·00·0	18·07·5	17·45·0	18·15·0	17·37·5	17·58·1	
	3	18·00·0	18·37·5	19·07·5	18·00·0	18·97·5	17·45·0	18·00·0	17·07·5	18·05·6	
	4	18·15·0	18·00·0	17·37·5	18·22·5	18·07·5	17·30·0	18·07·5	17·22·5	17·55·3	
	6	18·30·0	18·37·5	19·15·0	17·30·0	18·00·0	18·07·5	18·22·5	17·37·5	18·15·0	
	7	18·30·0	19·00·0	18·52·5	18·15·0	18·07·5	18·00·0	18·15·0	17·30·0	18·18·7	
	8	18·15·0	18·22·5	18·45·0	18·00·0	17·52·5	18·45·0	17·22·5	18·15·0	18·12·2	
	9	18·00·0	19·22·5	19·00·0	18·07·5	19·07·5	17·45·0	18·45·0	17·52·5	18·30·0	
	10	17·45·0	18·30·0	18·37·5	17·45·0	18·07·5	18·15·0	18·30·0	17·07·5	18·04·7	
	11	18·30·0	18·22·5	19·30·0	17·30·0	17·07·5	18 15·0	18·45·0	17·22·5	18·10·3	
	13	18·37·5	18·22·5	17·45·0	18 00·0	18·22·5	17·30·0	17·22·5	18·00·0	18·00·0	
	14	19·00·0	18·22·5	19·45·0	17·30·0	18·07·5	17·30·0	18·15·0	17·07·5	18·12·2	
	15	18·30·0	18·37·5	18·52·5	18·00·0	17·45·0	18·22·5	18·07·5	18·22·5	18·19·7	18·12·7
	16	18·45·0	19·22·5	19·07·5	18·15·0	18·52·5	17·45·0	18·07·5	17·52·5	18·30·9	
	17	18·30·0	19·37·5	19·37·5	18·15·0	18·00·0	17·52·5	18·15·0	18·22·5	18·33·7	
	18	18·30·0	18·52·5	19·30·0	18·15·0	18·37·5	18·45·0	18·00·0	17·37·5	18·30·9	
	20	18·30·0	18·37·5	19·52·5	18·15·0	18·22·5	17·00·0	17·30·0	17·52·5	18·15·0	
	21	19·07·5	18·22·5	18·30·0	19·27·5	18·45·0	18·00·0	17·30·0	17·00·0	18·20·3	
	22	18·00·0	18·07·5	18·22·5	16·45·0	18·00·0	17·07·5	18·00·0	17·07·5	17·41·2	
	23	18·30·0	18·52·5	19·00·0	18·00·0	18·22·5	18·30·0	17·30·0	17·00·0	18·13·1	
	24	18·00·0	18·37·5	18·15·0	18·00·0	17·37·5	18·00·0	18·15·0	18·37·5	18·10·3	
	27	18·30·0	19·07·5	18·45·0	17·30·0	18·37·5	18·00·0	17·30·0	18·22·5	18·17·8	
	28	18·15·0	19·07·5	19·07·5	18·00·0	17·52·5	17·30·0	18·00·0	18·00·0	18·14·0	
	29	18·30·0	18·07·5	18·52·5	17·45·0	17·37·5	18·30·0	18·00·0	17·37·5	18·07·5	
	30	18·15·0	18·52·5	19·00·0	18·15·0	17·52·5	18·00·0	18·00·0	17·00·0	18·09·4	
	31	18·37·5	18·15·0	19·22·5	18·30·0	18·30·0	17·37·5	18·00·0	17·37·5	18·15·0	

BOMBAY MAGNETICAL OBSERVATIONS.

OBSERVATIONS FOR ABSOLUTE DETERMINATIONS OF HORIZONTAL FORCE.

Date and Hour of G. M. T.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distances.	Magnet Deflected, A. 56.				Torsion Force.	S. H. F. M. Scale Reading.	
						East Side.		West Side.				
						N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Dif.	Vib.
D. H.					Feet.	Sca. read.	Sca. read.	Sca. read.	Sca. read.			
JAN. 1 19	A. 51	200	3·642		2·4	32·320	27·240	32·300	27·760		10·35	10·35
					2·0	34·160	25·430	34·140	25·440			
3 19	,,	,,	3·645		2·4	32·480	27·400	32·480	27·400		10·26	10·05
					2·0	34·310	25·555	34·290	25·560			
4 19	,,	,,	3·649		2·4	32·750	27·700	32·730	27·690		10·08	9·77
					2·0	34·575	25·850	34·550	25·840			
5 19	,,	,,	3·648		2·4	32·765	27·705	32·750	27·680		10·50	10·56
					2·0	34·620	25·870	34·560	25·846			
6 19	,,	,,	3·648	1·0020	2·4	32·890	27·850	32·875	27·850	1·0006	9·98	9·93
					2·0	34·730	26·010	34·700	26·000			
7 19	,,	,,	3·652		2·4	32·600	27·570	32·570	27·550		9·70	9·70
					2·0	34·450	25·703	34·400	25·700			
8 19	,,	,,	3·723		2·4	32·315	27·475	32·270	27·460		11·58	11·35
					2·0	34·065	25·705	34·010	25·680			
10 20	,,	,,	3·720		2·4	32·590	27·700	32·570	27·770		9·45	9·60
					2·0	34·350	25·920	34·300	25·900			
11 19	,,	,,	3·720		2·4	32·620	27·800	32·580	27·760		10·42	10·52
					2·0	34·380	26·000	34·345	25·960			
12 19	,,	,,	3·721		2·4	32·445	27·530	32·440	27·560		9·67	9·86
					2·0	34·250	25·810	34·160	25·790			
13 19	,,	,,	3·722		2·4	32·550	27·630	32·510	27·590		10·06	9·96
					2·0	34·310	25·910	34·270	25·900			
15 19	,,	,,	3·720		2·4	32·650	27·780	32·620	27·760		9·30	9·40
					2·0	34·415	26·020	34·380	25·990			
17 19	,,	,,	3·721		2·4	32·510	27·650	32·490	27·650		10·04	9·97
					2·0	34·270	25·890	34·280	25·880			
18 19	,,	,,	3·720		2·4	31·060	27·090	31·995	27·080		9·92	9·82
					2·0	33·730	25·810	33·730	25·800			
24 19	,,	,,	3·722		2·4	32·060	27·200	32·050	27·230		10·30	10·35
					2·0	33·850	25·445	33·790	25·410			
25 19	,,	,,	3·721		2·4	32·470	27·610	32·450	27·600		9·25	9·45
					2·0	34·250	25·825	34·200	25·815			
26 19	,,	,,	3·714		2·4	32·209	27·325	32·190	27·310		10·15	10·35
					2·0	33·980	25·560	33·910	25·550			
27 19	,,	,,	3·715		2·4	32·495	27·600	32·450	27·650		9·35	9·35
					2·0	34·260	25·850	34·230	25·810			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distance.	Magnet Deflected, A. 50. East Side. N. Pole E.	East Side. N. Pole W.	West Side. N. Pole E.	West Side. N. Pole W.	Torsion Force.	S. H. F. M. Scale Reading. Def.	Vib.
D. H.					Feet.	Sca. read.	Sca. read.	Sca. read.	Sca. read.			
Feb. 1 19	A. 51	200	3·710	1·0023	2·4	32·150	27·300	32·140	27·250	1·0013	8·70	8·65
					2·0	33·910	25·540	33·890	25·490			
2 19	"	"	3·696		2·4	32·460	27·595	32·450	27·560		7·76	7·75
					2·0	34·240	25·830	34·210	25·790			
3 19	"	"	3·717		2·4	32·240	27·400	32·210	27·380		7·10	7·10
					2·0	34·010	25·625	34·000	25·580			
4 19	"	"	3·719		2·4	32·120	27·290	32·120	27·250		6·40	6·60
					2·0	33·910	25·530	33·870	25·490			
5 19	"	"	3·714		2·4	32·250	27·400	32·250	27·375		8·25	8·15
					2·0	34·050	25·675	34·000	25·600			
7 19	"	"	3·720		2·4	32·090	27·210	32·080	27·200		7·64	—
					2·0	33·850	25·462	33·800	25·440			
8 19	"	"	3·718		2·4	32·310	27·460	32·305	27·420		7·00	7·06
					2·0	34·080	25·680	34·050	25·660			
9 20	"	"	3·721		2·4	32·230	27·370	32·210	27·350		7·20	7·15
					2·0	34·000	25·605	33·960	25·570			
10 19	"	"	3·719		2·4	32·300	27·465	32·285	27·430		7·30	7·45
					2·0	34·050	25·690	34·030	25·650			
11 19	"	"	3·720		2·4	32·300	27·450	32·310	27·440		7·70	7·70
					2·0	34·090	25·700	34·060	25·660			
12 19	"	"	3·720		2·4	32·320	27·500	32·320	27·450		7·55	7·55
					2·0	34·100	25·740	34·070	25·700			
14 19	"	"	3·720		2·4	32·100	27·500	32·100	27·500		8·10	8·02
					2·0	34·150	25·750	34·100	25·700			
15 19	"	"	3·718		2·4	32·200	27·375	32·200	27·350		7·20	7·12
					2·0	34·050	25·600	34·025	25·550			
16 19	"	"	3·720		2·4	32·150	27·400	32·150	27·400		7·50	7·40
					2·0	33·900	25·600	33·910	25·550			
17 19	"	"	3·715		2·4	32·050	27·250	32·050	27·250		7·10	7·25
					2·0	33·700	25·550	33·800	25·500			
18 19	"	"	3·721		2·4	32·100	27·250	32·075	27·250		6·60	6·57
					2·0	33·850	25·450	33·800	25·450			
19 19	"	"	3·720		2·4	32·230	27·350	32·275	27·340		7·40	7·40
					2·0	33·900	25·575	33·900	25·550			
21 19	"	"	3·719		2·4	32·100	27·300	32·100	27·275		6·42	6·85
					2·0	33·900	25·525	33·850	25·500			
22 19	"	"	3·720		2·4	32·275	27·500	32·275	27·490		—	5·00
					2·0	34·060	25·700	34·050	25·675			
23 19	"	"	3·719		2·4	32·500	27·650	32·500	27·700		—	7·05
					2·0	34·300	25·950	34·275	25·900			
24 19	"	"	3·719		2·4	32·210	27·350	32·200	27·350		5·95	6·18
					2·0	34·000	25·600	33·950	25·575			
25 19	"	"	3·720		2·4	32·500	27·700	32·500	27·700		6·00	5·82
					2·0	34·300	25·925	34·250	25·900			
26 19	"	"	3·719		2·4	32·110	27·275	32·100	27·300		6·72	6·60
					2·0	33·875	25·510	33·850	25·500			
28 19	"	"	3·719		2·4	32·200	27·350	32·160	27·350		6·38	6·40
					2·0	33·990	27·600	33·950	25·550			
Mar. 1 19	"	"	3·721		2·4	32·190	27·350	32·210	27·380		5·05	5·14
					2·0	33·950	25·610	33·900	25·590			
2 19	"	"	3·722		2·4	32·470	27·640	32·450	27·640		5·55	5·60
					2·0	34·240	25·890	34·200	25·850			
3 19	"	"	3·721		2·4	32·570	27·730	32·510	27·710		6·08	6·16
					2·0	34·320	25·950	34·250	25·930			
4 19	"	"	3·720		2·4	32·555	27·710	32·545	25·700		5·50	5·41
					2·0	34·320	25·980	34·280	25·915			
5 19	"	"	3·719		2·4	32·350	27·485	32·360	27·470		5·90	5·96
					2·0	34·110	25·730	34·070	25·690			
7 19	"	"	3·720		2·4	32·540	27·700	32·460	27·720		5·69	5·60
					2·0	34·250	25·970	34·200	25·950			
8 19	"	"	3·722		2·4	32·560	27·730	32·550	27·680		5·90	5·95
					2·0	34·310	25·955	34·300	25·915			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distances.	Magnet Deflected, I·11. East Side. N. Pole E.	East Side. N. Pole W.	West Side. N. Pole E.	West Side. N. Pole W.	Torsion Force.	S. H. F. M. Scale Reading. Def.	S. H. F. M. Scale Reading. Vib.
D. H.					Feet.	Sca. read.	Sca. read.	Sca. read.	Sca. read.			
March 9 19	A: 51	200	3·719		2·4	32·450	27·600	32·450	27·550		6·46	6·45
					2·0	34·210	25·850	34·180	25·800			
10 19	"	"	3·722	1·0020	2·4	32·460	27·625	32·430	27·630	1·0010	5·82	5·75
					2·0	34·220	26·840	34·160	25·780			
11 19	"	"	3·724		2·4	32·620	27·850	32·600	27·800		6·12	6·00
					2·0	34·380	26·050	34·350	26·030			
12 19	"	"	3·723		2·4	32·410	27·580	32·375	27·575		5·78	5·76
					2·0	34·170	25·810	34·130	25·800			
14 19	"	"	3·723		2·4	32·540	27·720	32·500	27·700		5·62	5·52
					2·0	34·300	25·950	34·250	25·950			
15 19	"	"	3·724		2·4	32·425	27·625	32·400	27·600		4·30	4·30
					2·0	34·200	25·850	34·100	25·850			
16 19	"	"	3·601		2·4	32·460	27·325	32·450	27·300		—	5·30
					2·0	34·350	25·460	34·325	25·450			
17 19	"	"	3·599		2·4	32·575	27·450	32·550	27·450		6·15	6·05
					2·0	34·375	25·550	34·375	25·550			
18 19	"	"	3·604		2·4	32·650	27·600	32·650	27·500		5·00	5·15
					2·0	34·525	25·600	34·500	25·600			
19 19	"	"	3·610		2·4	32·600	27·400	32·600	27·400		2·25	2·10
					2·0	34·450	25·500	34·400	25·475			
21 19	"	"	3·601		2·4	32·500	27·400	32·500	27·400		4·75	4·70
					2·0	34·375	25·500	34·375	25·500			
22 19	"	"	3·600		2·4	32·650	27·550	32·650	27·550		4·62	4·50
					2·0	34·525	25·650	34·500	25·650			
23 19	"	"	3·600		2·4	32·260	27·210	32·260	27·200		3·70	3·65
					2·0	34·175	25·300	34·150	25·300			
24 19	"	"	3·603		2·4	32·400	27·215	32·400	27·190		3·62	3·55
					2·0	34·310	25·340	34·260	25·300			
25 19	"	"	3·604		2·1	32·250	27·100	32·200	27·100		3·88	3·80
					2·0	34·140	25·230	34·050	25·200			
27 19	"	"	3·600		2·4	32·470	27·320	32·480	27·300		—	—
					2·0	34·380	25·450	34·350	25·410			
28 19	"	"	3·602		2·4	32·440	27·270	32·400	27·290		—	4·46
					2·0	34·300	25·400	34·250	25·375			
29 19	"	"	3·602		2·4	32·360	27·200	32·360	27·170		4·69	4·70
					2·0	34·250	25·340	34·210	25·300			
30 19	"	"	3·603		2·4	32·340	27·160	32·340	27·140		4·65	4·58
					2·0	34·250	25·290	34·200	25·250			
31 19	"	"	3·602		2·4	32·750	27·560	32·730	27·560		4·63	4·57
					2·0	34·640	25·700	34·590	25·650			
April 1 20	"	"	3·603		2·4	32·250	27·120	32·250	27·070		4·90	4·80
					2·0	34·150	25·230	34·120	25·200			
2 20	"	"	3·600		2·4	32·320	27·200	32·260	27·240		4·80	4·80
					2·0	34·230	25·350	34·150	25·330			
4 20	"	"	3·607		2·4	32·450	27·410	32·480	27·380		3·20	3·26
					2·0	34·320	25·550	34·280	25·550			
7 20	"	"	3·654		2·4	32·650	27·560	32·590	27·600		*31·05	33·00
					2·0	34·450	25·750	34·430	25·750			
8 20	"	"	3·643		2·4	32·290	27·240	32·230	37·250		36·17	36·07
					2·0	34·090	25·400	34·060	25·400			
9 20	"	"	3·644	1·0021	2·4	32·450	27·430	32·400	27·440	1·0010	36·67	36·65
					2·0	34·290	25·600	34·230	25·580			
11 20	"	"	3·644		2·4	31·950	26·950	31·920	26·940		37·91	37·91
					2·0	33·780	25·080	33·760	25·080			
12 20	"	"	3·643		2·4	31·620	26·560	31·600	26·550		—	38·00
					2·0	33·450	24·710	33·420	24·730			
13 20	"	"	3·645		2·4	32·140	27·110	32·110	27·110		37·10	37·04
					2·0	33·980	25·265	33·930	25·300			
14 20	"	"	3·657		2·4	31·990	26·970	31·960	26·980		36·90	36·88
					2·0	33·820	25·150	33·750	25·150			
15 20	"	"	3·656		2·4	31·960	26·950	31·930	26·920		37·30	37·05
					2·0	33·800	25·120	33·790	26·110			

* Scale altered.

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T.		Magnet vibrated.	No. of Vibrations.	Time of one Vibration, uncorrected.	Torsion Force.	Distances.	Magnet Deflected A'B'.				Torsion Force.	S. H. F. M. Scale Reading.	
							East Side.		West Side.				
							N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Def.	Vib.
	H. M.					Feet.	Scs. read.	Scs. read.	Scs. read.	Scs. read.			
April	16 20	A · 51	200	3·654	1·0020	2·4	32·190	27·200	32·210	27·170		36·50	36·50
						2·0	34·050	25·430	33·990	25·350			
	18 19	,,	,,	3·655		2·4	32·220	27·220	32·190	27·220		36·71	36·55
						2·0	34·050	25·400	34·020	25·390			
	19 20	,,	,,	3·657		2·4	32·220	27·230	32·200	27·230		37·79	37·35
						2·0	34·050	25·400	34·000	25·390			
	20 20	,,	,,	3·659		2·4	32·005	26·980	32·030	26·980		36·20	36·40
						2·0	33·850	25·160	33·830	25·150			
	21 19	,,	,,	3·661		2·4	32·300	27·280	32·300	27·250		35·30	35·30
						2·0	34·120	25·450	34·050	25·440			
	22 20	,,	,,	3·661		2·4	32·320	27·300	32·300	27·330		35·65	35·70
						2·0	34·150	25·500	34·120	25·470			
	23 20	,,	,,	3·659		2·4	32·420	27·430	32·400	27·430		36·30	36·35
						2·0	34·270	25·620	34·220	25·600			
	25 20	,,	,,	3·660		2·4	32·240	27·230	32·210	27·220		36·15	36·21
						2·0	34·050	25·460	34·010	25·400			
	26 20	,,	,,	3·660		2·4	32·370	27·370	32·380	27·350		35·75	35·75
						2·0	34·230	25·560	34·160	25·550			
	27 20	,,	,,	3·660		2·4	32·520	27·520	32·500	27·500		35·61	35·61
						2·0	34·350	25·700	34·310	25·700			
	28 20	,,	,,	3·660		2·4	32·150	27·150	32·130	27·130		35·85	35·85
						2·0	33·960	25·320	33·930	25·310			
	29 20	,,	,,	3·669		2·4	32·370	27·360	32·350	27·350		35·02	34·30
						2·0	34·200	25·540	34·150	25·520			
	30 20	,,	,,	3·660		2·4	32·530	27·500	32·500	27·500		34·28	34·28
						2·0	34·330	25·860	34·300	25·620			
May	2 20	,,	,,	3·665		2·4	32·275	27·260	32·250	27·250		35·30	35·35
						2·0	34·090	25·475	34·060	25·450			
	3 20	,,	,,	3·662		2·4	32·600	27·590	32·550	27·600		35·30	32·17
						2·0	34·410	25·770	34·360	25·780			
	4 20	,,	,,	3·660		2·4	32·100	27·150	32·100	27·090		35·90	35·90
						2·0	33·940	25·250	33·900	25·250			
	5 20	,,	,,	3·660		2·4	32·350	27·390	32·350	27·400		35·90	35·86
						2·0	34·200	25·580	34·160	25·580			
	6 20	,,	,,	3·659		2·4	32·600	27·535	32·550	27·580		35·34	35·32
						2·0	34·400	25·755	34·360	25·770			
	7 20	,,	,,	3·665		2·4	32·495	27·430	32·450	27·410		33·10	32·90
						2·0	34·310	25·600	34·210	25·590			
	9 20	,,	,,	3·663	1·0020	2·4	32·260	27·300	32·300	27·290	1·0011	33·45	33·45
						2·0	34·110	25·450	34·070	25·450			
	10 20	,,	,,	3·661		2·4	32·440	27·420	32·420	27·430		34·51	34·60
						2·0	34·270	25·610	34·200	25·610			
	11 20	,,	,,	3·661		2·4	32·430	27·450	32·400	27·450		34·43	34·39
						2·0	34·250	25·640	34·220	25·600			
	12 20	,,	,,	3·662		2·4	32·300	27·330	32·230	27·330		34·54	34·35
						2·0	34·150	25·530	34·100	25·500			
	13 20	,,	,,	3·662		2·4	32·530	27·540	32·510	27·520		34·65	34·60
						2·0	25·730	34·340	25·720	34·300			
	14 20	,,	,,	3·660		2·4	32·200	27·210	32·190	27·220		35·00	34·90
						2·0	34·010	25·390	33·990	25·390			
	16 20	,,	,,	3·660		2·4	32·525	27·500	32·530	27·500		33·20	33·40
						2·0	34·300	25·700	34·300	25·700			
	17 20	,,	,,	3·663		2·4	32·405	27·430	32·370	27·450		38·08	33·13
						2·0	34·250	25·630	34·170	25·620			
	18 20	,,	,,	3·663		2·4	32·260	27·250	32·225	27·250		34·15	34·15
						2·0	34·080	25·425	34·020	25·430			
	19 19	,,	,,	3·664		2·4	32·340	27·330	32·310	27·300		33·90	33·98
						2·0	34·140	25·500	34·100	25·480			
	20 20	,,	,,	3·664		2·4	32·700	27·700	32·650	27·700		32·90	32·90
						2·0	34·630	25·870	34·460	25·890			
	21 20	,,	,,	3·664		2·4	32·390	27·450	32·330	27·400		33·35	33·30
						2·0	34·200	25·590	34·160	25·590			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration, uncorrected.	Torsion Force.	Distances.	Magnet Deflected, A. 11.				Torsion Force.	S. R. F. M. Scale Reading.	
						East Side.		West Side.				
						N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Def.	Vib.
D. H.					Feet.	Sca. read.	Sca. read.	Sca. read.	Sca. read.			
MAY 23 20	A · 51	· 200	3·662		2·4	32·370	27·360	32·360	27·350		34·00	33·98
					2·0	34·170	25·530	34·140	25·510			
24 20	,,	,,	3·664		2·4	32·610	27·600	32·600	27·600		33·35	33·56
					2·0	34·430	25·880	34·400	25·800			
25 20	,,	,,	3·664		2·4	32·660	27·650	32·650	27·650		33·51	33·46
					2·0	34·500	25·860	34·470	25·850			
26 20	,,	,,	3·663		2·4	32·260	27·299	32·280	27·270		34·65	34·65
					2·0	34·100	25·470	34·050	25·450			
27 20	,,	,,	3·666		2·4	32·230	27·250	32·240	27·260		32·96	32·95
					2·0	34·030	25·420	34·060	25·420			
28 20	,,	,,	3·662		2·4	32·330	27·350	32·340	27·300		33·90	34·70
					2·0	34·150	25·510	34·110	25·500			
30 20	,,	,,	3·665		2·4	32·360	27·360	32·310	27·330		34·20	34·15
					2·0	34·150	25·560	34·100	25·550			
31 20	,,	,,	3·663		2·4	32·275	27·270	32·270	27·270		33·15	33·20
					2·0	34·070	25·450	34·050	25·440			
JUNE 1 20	,,	,,	3·662		2·4	32·480	27·460	32·460	27·440		34·17	34·00
					2·0	34·300	25·650	34·250	25·620			
2 20	,,	,,	3·660		2·4	32·475	27·550	32·450	27·525		34·60	34·60
					2·0	34·250	25·750	34·200	25·700			
3 20	,,	,,	3·665		2·4	32·500	27·520	32·440	27·500		33·35	33·40
					2·0	34·320	25·700	34·250	25·700			
4 20	,,	,,	3·665		2·4	32·400	27·440	32·360	27·460		33·65	33·78
					2·0	34·200	25·630	34·150	25·640			
6 20	,,	,,	3·664		2·4	32·500	27·520	32·450	27·550		33·10	—
					2·0	34·300	25·700	34·250	25·710			
7 20	,,	,,	3·664		2·4	32·680	27·650	32·670	27·600		33·38	33·30
					2·0	34·490	25·850	34·450	25·800			
8 20	,,	,,	3·665		2·4	32·500	27·500	32·490	27·470		33·55	33·42
					2·0	34·340	25·700	34·290	25·630			
9 20	,,	,,	3·665		2·4	32·250	27·270	32·200	27·300		33·90	33·80
					2·0	34·040	25·520	34·000	25·470			
10 20	,,	,,	3·666		2·4	32·220	27·310	32·180	27·250		32·62	32·35
					2·0	34·050	25·450	34·000	25·425			
11 20	,,	,,	3·665		2·4	32·340	27·330	32·300	27·350		34·30	34·24
					2·0	34·150	25·520	34·100	25·540			
13 20	,,	,,	3·665		2·4	32·650	27·630	32·550	27·630		32·35	32·52
					2·0	34·400	25·880	34·350	25·810			
14 20	,,	,,	3·665		2·4	32·650	27·660	32·610	27·670	1·0009	31·36	31·40
					2·0	34·480	25·850	34·440	25·870			
15 20	,,	,,	3·666		2·4	32·400	27·420	32·380	27·410		32·00	—
					2·0	34·230	25·620	34·170	25·600			
16 20	,,	,,	3·666		2·4	32·340	27·310	32·360	27·350		33·73	33·72
					2·0	34·150	25·510	34·140	25·650			
17 20	,,	,,	3·665		2·4	32·350	27·350	32·350	27·350		32·00	31·97
					2·0	34·170	25·540	34·140	25·530			
18 20	,,	,,	3·665	1·0016	2·4	32·325	27·350	32·270	27·360		32·50	32·55
					2·0	34·120	25·530	34·080	25·550			
20 20	,,	,,	3·665		2·4	32·470	27·480	32·470	27·500		32·08	32·03
					2·0	34·290	25·690	34·240	25·680			
21 20	,,	,,	3·665		2·4	32·080	27·090	32·100	27·060		32·87	32·89
					2·0	33·910	25·270	33·880	25·255			
22 20	,,	,,	3·665		2·4	32·475	27·465	32·450	27·450		32·85	32·75
					2·0	34·275	25·650	34·250	25·650			
23 20	,,	,,	3·669		2·4	32·690	27·700	32·650	27·690		33·16	33·26
					2·0	34·500	25·900	34·450	25·900			
24 20	,,	,,	3·667		2·4	32·700	27·700	32·650	27·650		32·750	32·70
					2·0	34·500	25·850	34·450	25·800			
25 20	,,	,,	3·665		2·4	32·350	27·350	32·335	27·310		32·78	32·63
					2·0	34·150	25·540	34·100	25·530			
27 20	,,	,,	3·666		2·4	32·230	27·250	32·270	27·310		33·17	—
					2·0	34·100	25·500	34·040	25·490			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T. 1847.		Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distances.	Magnet Deflected, I· 11.				Torsion Force.	S. H. F. M. Scale Reading.	
							East Side.		West Side.				
							N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Def.	Vib.
	D. H.					Feet.	Scs. read.	Scs. read.	Scs. read.	Scs. read.			
June	28 20	A· 51	200	3·366		2·4	32·620	27·640	32·570	27·650		32·34	32·32
						2·0	34·450	25·850	34·380	25·825			
	29 20	,,	,,	3·666		2·4	32·250	27·270	32·250	27·250		32·49	32·51
						2·0	34·060	25·490	34·030	25·450			
	30 20	,,	,,	3·670		2·4	32·050	27·100	32·040	27·230		31·40	31·40
						2·0	33·870	25·300	33·800	25·310			
July	1 20	,,	,,	3·667		2·4	32·100	27·100	32·050	27·050		32·40	32·40
						2·0	33·890	25·270	33·850	25·260			
	2 20	,,	,,	3·668		2·4	31·960	26·890	31·870	26·850		32·20	32·30
						2·0	33·700	25·060	33·660	25·060			
	4 20	,,	,,	3·667		2·4	32·290	27·325	32·250	27·330		31·29	31·30
						2·0	34·100	25·500	34·050	25·500			
	5 20	,,	,,	3·667		2·4	32·170	27·210	32·150	27·240		32·05	32·05
						2·0	33·970	25·430	33·960	25·430			
	6 20	,,	,,	3·665		2·4	32·150	27·160	32·110	27·160		32·25	32·45
						2·0	33·950	25·350	33·910	25·350			
	7 20	,,	,,	3·668		2·4	32·140	27·150	32·100	27·150		30·75	30·85
						2·0	33·945	25·350	33·900	25·350			
	8 20	,,	,,	3·666		2·4	32·700	27·730	32·690	27·700		31·10	31·04
						2·0	34·500	25·930	34·480	25·900			
	9 20	,,	,,	3·671		2·4	32·200	27·210	32·175	27·300		29·25	20·25
						2·0	34·010	25·450	34·000	25·490			
	11 20	,,	,,	3·669		2·4	31·950	26·960	31·895	26·850		29·97	29·80
						2·0	33·780	25·150	33·710	25·140			
	12 20	,,	,,	3·669		2·4	32·100	27·120	32·140	27·100		29·95	29·99
						2·0	33·950	25·310	33·900	25·300			
	13 20	,,	,,	3·668		2·4	32·450	27·470	32·430	27·500		29·82	29·80
						2·0	34·260	25·670	34·240	25·660			
	14 20	,,	,,	3·668		2·4	32·070	27·100	32·060	27·110		30·25	30·20
						2·0	33·900	25·300	33·850	25·290			
	15 20	,,	,,	3·667		2·4	32·180	27·200	32·110	27·240		30·85	31·05
						2·0	33·960	25·420	33·910	25·420			
	16 20	,,	,,	3·667		2·4	32·450	27·450	32·460	27·450		30·55	30·40
						2·0	34·300	25·640	34·250	25·640			
	18 19	,,	,,	3·667		2·4	32·300	25·350	32·320	27·310		30·24	30·24
						2·0	34·150	25·570	34·100	25·500			
	19 20	,,	,,	3·668		2·4	31·700	26·760	31·700	26·760		31·05	30·99
						2·0	33·520	24·950	33·500	24·990			
	20 20	,,	,,	3·671		2·4	32·600	27·600	32·590	27·610		29·56	29·64
						2·0	34·410	25·790	34·360	25·800			
	21 20	,,	,,	3·668		2·4	32·550	27·570	32·520	27·540		29·62	29·60
						2·0	34·350	25·770	34·340	25·710			
	23 20	,,	,,	3·667		2·4	32·475	27·500	32·450	27·475		30·17	30·20
						2·0	34·275	25·700	34·250	25·650			
	25 20	,,	,,	3·667		2·4	32·400	27·440	32·360	27·420		30·05	30·00
						2·0	34·200	25·610	34·175	25·610			
	26 20	,,	,,	3·667		2·4	32·285	27·300	32·280	27·295		29·83	29·75
						2·0	34·100	25·470	34·080	25·450			
	27 20	,,	,,	3·668		2·4	32·210	27·230	32·210	27·210		29·42	29·40
						2·0	34·030	25·430	33·950	25·400			
	28 21	,,	,,	3·670		2·4	32·050	27·130	32·150	27·150		—	30·07
						2·0	33·990	25·350	33·950	25·350			
	29 23	,,	,,	3·671		2·4	32·810	27·830	32·820	27·830		28·58	28·55
						2·0	34·645	26·010	34·600	26·010			
	30 20	,,	,,	3.669	1·0016	2·4	32·950	27·970	32·950	28·000	1·0008	29·58	29·60
						2·0	34·750	26.190	34·705	26·160			
Aug.	1 20	,,	,,	3·679		2·4	32·490	27·540	32·470	27·550		29·95	29·98
						2·0	34·240	25.770	34·220	25·750			
	2 20	,,	,,	3·685		2·4	32·300	27·360	32·270	27·345		28·60	28·69
						2·0	34·100	25·560	34·050	25·550			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T. 1847.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distance.	Magnet Deflected, I. 11.				Torsion Force.	S. H. F. M. Scale Reading.	
						East Side.		West Side.				
						N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Def.	Vib.
D. H.					Feet.	Scs. read.	Scs. read.	Scs. read.	Scs. read.			
Aug. 3 20	A. 51	200	3·685		2·4	32·350	27·430	32·350	27·420		29·73	29·79
					2·0	34·140	25·610	34·130	25·660			
4 20	"	"	3·693		2·4	32·600	27·730	32·580	27·780		26·80	26·80
					2·0	34·370	26·950	34·340	25·980			
5 20	"	"	3·686		2·4	32·250	27·310	32·230	27·300		28·59	28·70
					2·0	34·030	25·520	34·000	25·510			
6 20	"	"	3·688		2·4	32·130	27·200	32·090	27·180		28·90	28·95
					2·0	33·940	25·400	33·860	25·390			
8 20	"	"	3·688		2·4	32·480	27·500	32·440	27·470		27·69	27·68
					2·0	34·220	25·720	34·210	25·700			
9 20	"	"	3·688		2·4	32·390	27·470	32·360	27·460		28·20	28·22
					2·0	34·160	25·680	34·140	25·670			
10 20	"	"	3·689		2·4	32·200	27·270	32·190	27·270		28·60	28·60
					2·0	34·000	25·560	33·980	25·530			
12 20	"	"	3·715		2·4	32·430	27·570	32·410	27·600		29·58	29·50
					2·0	34·200	25·840	34·160	25·830			
13 20	"	"	3·715		2·4	32·270	27·460	32·260	27·440		29·39	29·36
					2·0	34·040	25·700	34·000	25·670			
14 20	"	"	3·714		2·4	32·675	27·690	32·540	27·640		29·18	29·30
					2·0	34·320	25·920	34·270	25·890			
16 20	"	"	3·715		2·4	32·500	27·650	32·500	27·630	1·0009	28·60	28·66
					2·0	34·270	25·900	34·160	25·850			
18 23	"	"	3·715	1·0017	2·4	32·320	27·500	32·300	27·490		28·08	27·88
					2·0	34·080	25·740	34·050	25·740			
19 20	"	"	3·714		2·4	32·390	27·550	32·390	27·510		29·40	28·40
					2·0	34·150	25·800	34·110	25·760			
20 21	"	"	3·714		2·4	32·120	27·300	32·120	27·290		28·80	28·74
					2·0	33·870	25·540	33·860	25·510			
22 20	"	"	3·718		2·4	32·360	27·500	32·340	27·520		26·34	26·34
					2·0	34·120	25·760	34·080	25·760			
24 20	"	"	3·721		2·4	32·980	28·150	32·950	28·150		—	25·70
					2·0	34·740	26·360	34·690	26·360			
24 20	"	"	3·719		2·4	31·960	27·120	31·960	27·140		27·50	27·43
					2·0	33·740	25·380	33·700	25·380			
25 20	"	"	3·720		2·4	32·230	27·400	32·240	27·360		26·51	26·44
					2·0	34·000	25·650	33·960	25·610			
26 20	"	"	3·717		2·4	32·050	27·230	32·050	27·250		27·80	27·78
					2·0	33·840	25·480	33·800	25·490			
27 20	"	"	3·719		2·4	31·710	26·880	31·730	26·850		27·31	27·31
					2·0	33·500	25·110	33·475	25·090			
29 20	"	"	3·715		2·4	32·570	27·740	32·530	27·780		27·38	27·42
					2·0	34·330	26·000	34·290	26·000			
30 20	"	"	3·715		2·4	32·150	27·350	32·160	27·340		27·72	27·58
					2·0	33·950	25·570	33·950	25·560			
31 20	"	"	3·716		2·4	32·230	27·400	32·210	27·400		28·15	28·05
					2·0	34·000	25·650	33·960	25·640			
Sept. 1 20	"	"	3·716		2·4	32·000	27·150	32·000	27·150		28·02	28·02
					2·0	33·760	25·400	33·740	25·400			
2 20	"	"	3·715		2·4	31·675	26·840	31·650	26·820		27·75	27·65
					2·0	33·470	25·080	33·430	25·050			
3 20	"	"	3·715		2·4	31·900	27·050	31·900	27·070		27·00	26·95
					2·0	33·690	25·300	33·640	25·290			
5 20	"	"	3·715		2·4	32·060	27·220	32·050	27·200		27·29	27·55
					2·0	33·830	25·460	33·810	25·450			
6 20	"	"	3·716		2·4	32·325	27·460	32·310	27·440		27·36	27·85
					2·0	34·090	25·690	34·050	25·670			
7 20	"	"	3·715		2·4	32·190	27·350	32·170	27·340		27·74	27·85
					2·0	33·970	25·600	33·940	25·560			
8 20	"	"	3·711		2·4	32·100	27·240	32·025	27·250		28·20	28·20
					2·0	33·850	25·475	33·840	25·500			
9 20	"	"	3·714		2·4	31·960	27·140	31·940	27·130		26·69	26·75
					2·0	33·750	25·390	33·700	25·365			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T. 1847.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distances.	Magnet Deflected F. H.				Torsion Force.	S. H. F. M. Scale Reading.	
						East Side.		West Side.				
						N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Def.	Vib.
H. M.					Feet.	Sca. read.	Sca. read.	Sca. read.	Sca. read.			
Sept. 10 20	A · 51	200	3·714	1·0016	2·4	31·680	26·830	31·660	26·800	1·0005	26·96	27·02
					2·0	33·460	25·060	33·410	25·050			
12 20	,,	,,	3·717		2·4	31·920	27·060	31·930	27·030		26·15	26·00
					2·0	33·690	25·300	33·680	25·280			
13 20	,,	,,	3·718		2·4	32·400	27·540	32·400	27·500		24·79	24·86
					2 0	34·150	25·770	34·150	25·740			
14 20	,,	,,	3·718		2·4	32·425	27·600	32·350	27·600		25·75	25·80
					2·0	34·160	25·825	34·150	25·880			
15 20	,,	,,	3·715		2·4	32·150	27·270	32·150	27·250		26·50	26·38
					2·0	33·900	25·540	33·860	25·500			
16 20	,,	,,	3·717		2·4	32·620	27·800	32·600	27·780		25·75	25·65
					2·0	34·390	26·050	34·350	26·000			
17 20	,,	,,	3·716		2·4	32·460	27·630	32·445	27·630		25·40	25·40
					2·0	34·235	25·900	34·170	25·910			
19 20	,,	,,	3·718		2·4	32·260	27·430	32·300	27·380		25·83	25·80
					2·0	34·040	25·650	34·000	25·640			
20 20	,,	,,	3·718		2·4	32·570	27·750	32·580	27·700		24·55	24·48
					2·0	34·350	25·950	34·340	25·940			
21 20	,,	,,	3·718		2·4	32·600	27·820	32·560	27·810		24·93	24·95
					2·0	34·380	26·050	34·350	26·050			
22 20	,,	,,	3·717		2·4	32·270	27·420	32·300	27·385		25·34	25·25
					2·0	34·025	25·670	34·030	25·650			
23 20	,,	,,	3·719		2·4	32·400	27·545	32·350	27·520		24·24	23·90
					2·0	34·200	25·750	34·170	25·750			
24 20	,,	,,	3·724		2·4	32·450	27·600	32·450	27·570		21·40	21·25
					2·0	34·250	25·845	34·200	25·830			
26 20	,,	,,	3·723		2·4	32·650	27·780	32·670	27·700		22·24	22·30
					2·0	34·420	26·030	34·410	25·990			
27 20	,,	,,	3·722		2·4	32·600	27·740	32·650	27·700		22·03	22·10
					2·0	34·370	25·970	34·350	25·950			
28 20	,,	,,	3·719		2·4	32·355	27·535	32·350	27·495		24·04	23·92
					2·0	34·110	25·750	34·110	25·720			
29 20	,,	,,	3·721		2·4	32·590	27·770	32·600	27·720		22·90	22·90
					2·0	34·390	26·010	34·335	25·980			
30 20	,,	,,	3·718		2·4	32·500	27·670	32·530	27·670		24·54	24 44
					2·0	34·260	25·900	34·250	25·900			
Oct. 1 20	,,	,,	3·718		2·4	32·720	27·830	32·700	27·850		24·55	24·47
					2·0	34·480	26·110	34·460	26·070			
3 20	,,	,,	3·719		2·4	32·340	27·520	32·315	27·510		24·77	—
					2·0	34·095	25·750	34·050	25·750			
4 20	,,	,,	3·717		2·4	32·110	27·190	32·110	27·300		25·00	24·75
					2·0	33·900	25·510	33·860	25·630			
6 20	,,	,,	3·717		2·4	32·360	27·550	32·350	27·545		25·00	24·90
					2·0	34·120	25·800	34·090	25·800			
7 20	,,	,,	3·711		2·4	32·440	27·600	32·360	27·600		26·71	27·12
					2·0	34·190	25·850	34·150	25·830			
8 20	,,	,,	3·716		2·4	32·640	27·800	32·640	27·760		25·56	25·63
					2·0	34·410	26·030	34·400	26·000			
10 20	,,	,,	3·769		2·4	32·600	27·940	32·610	27·920		22·80	23·17
					2·0	34·350	26·210	34·300	26·220			
11 20	,,	,,	3·769		2·4	32·500	27·820	32·490	27·830		23·46	23·46
					2·0	34·240	26·110	34·200	26·060			
13 20	,,	,,	3·771		2·4	32·600	27·920	32·590	27·910		22·17	22·20
					2·0	34·310	26·230	34·270	26·220			
14 20	,,	,,	3·769		2·4	32·660	27·890	32·590	27·850		23·24	23·24
					2·0	34·290	26·140	34·270	26·100			
15 19	,,	,,	3·770	1·0019	2·4	32·490	27·750	32·460	27·750	1·0011	22·52	22·52
					2·0	34·160	26·050	34·170	26·050			
17 20	,,	,,	3·770		2·4	32·590	27·900	32·590	27·920		22·47	22·47
					2·0	34·300	26·190	34·230	26·200			
18 20	,,	,,	3·770		2·4	32·410	27·700	32·425	27·720		23·15	23·09
					2·0	34·110	25·970	34·100	25·960			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T. 1847.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distances.	Magnet Deflected, F. 11.				— Torsion Force.	S. H. F. M. Scale Reading.	
						East Side.		West Side.				
						N. Pole E.	N. Pole W.	N. Pole E.	N. Pole W.		Def.	Vib.
D. H.					Feet.	Scs. read.	Scs. read.	Scs. read.	Scs. read.			
Oct. 19 20	A. 51	200	3·771		2·4	32·740	28·050	32·750	28·050		22·66	—
					2·0	34·460	26·350	34·445	26·330			
21 20	,,	,,	3·766		2·4	32·460	27·770	32·490	27·760		22·95	22·99
					2·0	34·200	26·060	34·190	26·050			
22 20	,,	,,	3·768		2·4	32·150	27·450	32·160	27·380		23·25	23·25
					2·0	33·900	25·720	33·850	25·700			
24 20	,,	,,	3·780		2·4	32·900	28·230	32·850	28·180		16·00	15·56
					2·0	34·620	26·485	34·550	26·460			
25 20	,,	,,	3·772		2·4	32·600	27·900	32·590	27·890		19·80	19·82
					2·0	34·380	26·160	34·255	26·180			
26 23	,,	,,	3·780		2·4	32·860	28·170	32·850	28·155		19·55	19·55
					2·0	34·620	26·450	34·530	26·450			
27 23	,,	,,	3·777		2·4	32·690	28·030	32·695	28·000		—	20·11
					2·0	34·420	26·310	34·400	26·290			
28 20	,,	,,	3·777		2·4	32·630	27·960	32·630	27·960		20·07	20·06
					2·0	34·350	26·250	34·310	26·230			
29 21	,,	,,	3·774		2·4	32·560	27·900	32·530	27·860		20·10	20·05
					2·0	34·260	26·190	34·225	26·180			
31 20	,,	,,	3·779		2·4	32·900	28·110	32·800	28·090		20·50	20·50
					2·0	34·500	26·400	34·490	26·400			
Nov. 1 20	,,	,,	3·779		2·4	32·650	27·940	32·650	27·960		19·16	19·00
					2·0	34·390	26·250	34·340	26·240			
2 20	,,	,,	3·776		2·4	32·690	27·970	32·640	27·980		20·06	20·20
					2·0	34·390	26·250	34·350	26·260			
3 20	,,	,,	3·775		2·4	32·350	27·650	32·350	27·640		20·88	20·92
					2·0	34·060	25·980	34·040	25·920			
4 20	,,	,,	3·773		2·4	32·400	27·720	32·400	27·700		22·13	22·09
					2·0	34·110	26·000	34·060	26·000			
5 20	,,	,,	3·774		2·4	32·500	27·750	32·500	27·700		22·52	—
					2·0	34·200	26·050	34·250	26·040			
7 20	,,	,,	3·774		2·4	32·960	28·350	32·930	28·200		21·08	20·68
					2·0	34·650	26·550	34·630	26·530			
8 20	,,	,,	3·778		2·4	32·530	27·860	32·510	27·840		21·28	21·16
					2·0	34·245	26·150	34·225	26·150			
9 20	,,	,,	3·773		2·4	32·810	28·110	32·790	28·100		20·40	20·42
					2·0	34·510	26·410	34·480	26·390			
10 20	,,	,,	3·774		2·4	32·560	27·880	32·540	27·850		19·60	19·60
					2·0	34·260	26·160	34·250	26·150			
11 20	,,	,,	3·775		2·4	33·050	28·350	33·000	28·345		20·34	20·30
					2·0	34·750	26·650	34·700	26·630			
12 20	,,	,,	3·774		2·4	32·765	28·095	32·745	28·100		20·07	20·17
					2·0	34·500	26·400	34·450	26·395			
14 20	,,	,,	3·774		2·4	32·830	28·150	32·805	28·150		19·78	19·49
					2·0	34·550	26·450	34·530	26·450			
15 20	,,	,,	3·776		2·4	32·740	28·065	32·740	28·045		20·26	20·00
					2·0	34·450	26·350	34·420	26·350			
16 20	,,	,,	3·777		2·4	32·740	28·050	32·740	28·030		18·45	18·45
					2·0	34·460	26·330	34·410	26·330			
17 20	,,	,,	3·774		2·4	32·960	28·250	32·920	28·240		19·55	19·44
					2·0	34·650	26·570	34·640	26·540			
18 20	,,	,,	3·775		2·4	32 620	27·950	32·620	27·940		19·44	19·25
					2·0	34·340	26·250	34·300	26·240			
19 20	,,	,,	3·777	1·0020	2·4	32·780	28·090	32·750	28·090	1·0013	18·94	19·05
					2·0	34·480	26·380	34·450	26·380			
20 20	,,	,,	3·775		2·4	32·990	28·290	32·970	28·290		—	19·32
					2·0	34·690	26·590	34·645	26·595			
22 20	,,	,,	3·782		2·4	33·010	28·350	32·960	28·340		16·04	16·05
					2·0	34·710	26·640	34·660	26·640			
24 20	,,	,,	3·784		2·4	33·400	28·440	33·150	28·460		—	18·35
					2·0	34·860	26·710	34·830	26·780			
25 20	,,	,,	3·780		2·4	32·900	28·220	32·840	28·150		16·86	16·78
					2·0	34·690	26·490	34·650	26·440			

OBSERVATIONS FOR ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

Date and Hour of G. M. T. 1847.	Magnet vibrated.	No. of Vibrations.	Time of one Vibration uncorrected.	Torsion Force.	Distances.	Magnet Deflected, F 11. East Side. N. Pole E.	East Side. N. Pole W.	West Side. N. Pole E.	West Side. N. Pole W.	Torsion Force.	S. H. F. M. Scale Reading. Def.	Vib.
D. H.					Feet.	Scs. read.	Scs. read.	Scs. read.	Scs. read.			
Nov. 26 20	A. 51	200	3·776		2·4	32·900	28·230	32·880	28·200		19·40	19·30
					2·0	34·620	26·545	34·570	26·530			
28 20	"	"	3·774		2·4	32·480	27·790	32·460	27·780		19·31	19·23
					2·0	34·170	26·090	34·150	26·070			
29 20	"	"	3·775		2·4	32·910	28·230	32·880	28·210		18·92	18·86
					2·0	34·600	26·520	34·565	26·500			
30 20	"	"	3·774		2·4	32·840	28·160	32·790	28·175		19·35	19·22
					2·0	34·530	26·460	34·500	26·460			
Dec. 1 20	"	"	3·780		2·4	32·655	27·960	32·650	27·965		17·80	17·98
					2·0	34·360	26·240	34·350	26·240			
2 20	"	"	3·780		2·4	32·630	27·910	32·640	27·880		17·40	17·48
					2·0	34·335	26·190	34·300	26·160			
3 20	"	"	3·775		2·4	32·690	28·005	32·680	28·040		18·15	—
					2·0	34·400	26·330	34·380	26·350			
5 20	"	"	3·775		2·4	32·900	28·210	32·890	28·200		18·44	18·34
					2·0	34·600	26·500	34·560	26·500			
6 20	"	"	3·775		2·4	32·965	28·305	32·965	28·280		18·90	18·63
					2·0	34·710	26·590	34·655	26·590			
7 20	"	"	3·774		2·4	33·020	28·380	33·010	28·360		18·17	—
					2·0	34·740	26·650	34·710	26·640			
8 20	"	"	3·777		2·4	32·760	28·055	32·720	28·100		17·75	17·50
					2·0	34·470	26·390	34·450	26·380			
9 20	"	"	3·776		2·4	32·840	28·140	32·830	28·120		18·45	18·30
					2·0	34·545	26·420	34·515	26·440			
10 20	"	"	3·777		2·4	33·050	28·350	33·010	28·350		17·85	17·86
					2·0	34·750	26·630	34·710	26·650			
12 20	"	"	3·777		2·4	32·660	27·980	32·650	27·980		18·08	17·94
					2·0	34·380	26·260	34·350	26·280			
13 20	"	"	3·777		2·4	33·060	28·390	33·050	28·310		17·53	17·50
					2·0	34·780	26·680	34·750	26·620			
14 20	"	"	3·788		2·4	32·790	28·150	32·770	28·140		18·44	18·58
					2·0	34·500	26·450	34·455	26·440			
15 20	"	"	3·789		2·4	33·110	28·450	33·090	28·450		17·41	17·34
					2·0	34·810	26·760	34·780	26·750			
16 20	"	"	3·790		2·4	33·020	28·350	33·000	28·350		18·03	17·90
					2·0	34·710	26·670	34·660	26·650			
17 20	"	"	3·791	1·0025	2·4	32·980	28·300	32·960	28·300		15·75	15·72
					2·0	34·690	26·610	34·650	26·600			
19 20	"	"	3·798		2·4	33·450	28·840	33·350	28·660		12·77	12·82
					2·0	35·130	29·180	35·050	27·200			
20 20	"	"	3·797		2·4	31·750	27·050	31·750	27·050		13·10	13·22
					2·0	33·450	25·350	33·400	25·350			
21 20	"	"	3·792		2·4	32·800	28·100	32·760	28·100		15·95	16·05
					2·0	34·500	26·395	34·450	26·400			
22 20	"	"	3·788		2·4	32·700	28·040	32·700	28·000		18·69	18·70
					2·0	34·400	26·330	34·360	26·340			
23 20	"	"	3·788		2·4	32·620	27·950	32·580	27·905		18·00	17·98
					2·0	34·270	26·250	34·250	26·240			
26 20	"	"	3·789		2·4	32·870	28·230	32·830	28·220		18·72	18·72
					2·0	34·555	26·535	34·505	26·530			
27 20	"	"	3·690		2·4	32·430	27·770	32·400	27·780		17·56	17·56
					2·0	34·115	26·060	34·070	26·080			
28 20	"	"	3·790		2·4	32·830	28·170	32·790	28·200		17·60	17·60
					2·0	34·500	26·500	34·480	26·500			
29 20	"	"	3·790		2·4	32·750	28·100	32·750	28·100		16·65	16·54
					2·0	34·450	26·430	34·410	26·410			
30 20	"	"	3·790		2·4	32·930	28·260	32·870	28·260		16·48	—
					2·0	34·615	26·560	34·560	26·575			
31 20	"	"	3·790		2·4	32·495	27·830	32·450	27·800		16·76	16·84
					2·0	34·160	26·130	34·130	26·145			

BOMBAY MAGNETICAL OBSERVATORY.

ABSTRACTS OF THE RESULTS

OF THE

MAGNETICAL OBSERVATIONS.

1847.

BOMBAY MAGNETICAL OBSERVATIONS.

MAGNETICAL RESULTS.

Under this are comprised the five Magnetic Elements:—

1st. Declination.
2nd. Horizontal Force.
3rd. Vertical Force.
4th. Total Force.
5th. Dip or Inclination.

Observations of the Dip, and the Absolute Horizontal Force of the Earth were made once every day (Sundays and Christmas Day excepted).

From the peculiar position of the Large Declination Magnetometer, with reference to the Transit instrument, each Observation becomes an absolute determination of the Declination.

By means of the absolute determinations of the Dip and Horizontal Force, the Scale Readings of the Horizontal and Vertical Force Magnetometers were changed into the values of their respective Forces: from these were calculated the Dip and Total Intensity.

It is necessary to remark that the Magnetical Disturbances are not considered here, they are discussed at the end of the Results under the head of "*Disturbances.*"

Disturbance or Abnormal Days were scrupulously thrown out in finding the Hourly and Monthly Mean Values of each instrument, as by so doing we avoided vitiating the Results.

DECLINATION.

In this Observatory there are two Magnetic Declinometers, one a Large and the other a Small Instrument; with the former every Observation is an Absolute Determination, but the Observations with the latter are only differential. How near both these Instruments coincide will be seen from the following Tables

TABLE I.—*Mean Value of Absolute Declination (Easterly) for each day of Göttingen Mean Solar Time.*
(As obtained by means of the Large Declination Magnetometer.)

DATE.	MONTHS 1847.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.
1	0°13′518	0°14′287	*0°14′203	0°13′579		0°13′734	0°13′118	0°13′277	0°13′421	0°14′348	0°15′065	0°14′143
2		·14·343	·14·334	·13·884	0°14′201	·13·898	·12·648	·13·254	·13·282		·14·193	·14·276
3	·13·797	·13·599	·14·050		·14·359	·13·595		·13·201	·13·552	·14·010	·14·316	·14·821
4	·14·050	·14·146	·14·559	·14·583	·13·885	·13·446	·12·893	·13·788		·13·616	·14·255	
5	·14·049	·13·869	·13·997	·14·440	·13·740		·12·797	·13·904	·13·748	·14·076	·14·079	·14·487
6	·13·988			*·13·836	·13·715	·13·505	·12·643	·13·522	·14·197	·14·297		·14·423
7	·13·830	·14·138	·13·995	*·14·807	*·14·015	·13·629	·13·414		·13·998	·14·152	·14·222	·14·509
8	·13·761	·13·998	·14·523	·14·559	*·14·463	·13·663	·13·419	·13·835	·13·761	·14·615	·14·186	·14·060
9		·14·211	·14·255	·14·375		·13·089	·13·516	·13·564	·14·319		·14·503	·14·236
10	·13·311	·13·997	·14·256		·14·144	·13·114		·13·245	·13·311	·14·847	·14·304	·14·911
11	·13·958	·14·080	·14·410	·14·030	·13·957	·13·418	·13·097	·13·832		·14·257	·14·604	
12	·14·236	·13·965	·13·884	·13·270	·14·028		·13·696	·13·921	·13·477	·14·205	·14·194	·14·196
13	·14·170			·14·141	·14·051	·13·613	·13·649	·13·336	·14·459	*·15·204		·14·429
14	·13·842	·13·977	·14·318	·14·147	·13·874	·14·043	·13·119	·14·034	·13·906	*·14·519	·14·494	·14·112
15	·14·069	·13·863	·13·940	·13·991	*·14·067	·13·644	·13·399		·13·083	*·14·438	·14·316	·14·389
16		·14·111	·14·076	·14·117	*·14·642	·13·934	·13·539	·13·937	·13·486		·14·546	·14·221
17	·14·304	·13·766	·13·822			·13·547		·13·733	·13·699	*·14·656	·14·450	*·15·775
18	·13·728	·13·774	·13·847	·14·002	·14·091	·13·266	·13·299	·14·015		·14·579	·14·185	
19	·13·607	·14·071	*·15·186	*·13·817	·13·901		·13·296	·14·164	·13·512	·15·010	·14·568	*·17·384
20	·13·757			*·15·081	·14·392	·13·518	·13·696	·13·735	·14·348	*·14·097		*·16·758
21	·13·899	·13·805	·14·772	*·14·921	*·13·796	·13·171	·13·716		·14·196	*·14·371	·14·404	·15·570
22	·13·768	·14·538	·14·370	·14·398		·13·855	·13·452	·14·919	·14·083	*·13·995	*·14·491	·15·029
23		·14·187	·14·207	·14·269	·13·828	·14·055	·13·452	·14·062	·14·277	*·16·424	·15·349	·14·956
24	·13·606	·14·085	·14·403		·13·838	·13·942		·14·068	*·16·436		·15·002	
25	·13·888	·14·460	·14·386	·13·744	·13·856	·13·227	·13·761	·14·290		*·15·633	*·15·365	
26	·13·521	·14·169	·14·492	·13·852	·13·722		·13·646	·13·989	*·14·443	·15·067	·15·025	·14·654
27	·13·929			·14·382	·13·752	·13·363	·13·317	·13·336	*·15·536	·14·967		·14·194
28	·14·095	·14·029	·14·211	·14·021	·13·515	*·13·528	·13·506		·14·373	·14·844	·14·372	·14·542
29	·14·649		·14·126	·14·131		·13·338	·14·003	·14·217	*·14·961	·14·598	·14·579	·14·832
30			·14·249	·14·545	·13·799	·12·657	·13·342	·13·683	·14·416		·14·250	·14·965
31	*·14·917		·14·230		·13·153			·13·912		·14·967		·14·383

TABLE II.—*Mean of the Scale Readings of Small Declination Magnetometer, reduced to Arc value for each day of Göttingen Mean Solar Time.*

DATE.	MONTHS 1847.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.
1	0°14′11	0°13′90	*0°13′99	0°12′89		0°14′52	0°14′11	0°14′15	0°14′14	0°15′26	0°15′91	0°15′35
2		0·13·62	0·13·51	0·13·18	0°14′65	0·14·55	0·13·24	0·14·21	0·14·08		0·15·38	0·15·71
3	0·13·98	0·13·42	0·13·24		0·15·05	0·14·33		0·14·00	0·14·20	0·15·02	0·15·25	0·15·92
4	0·14·40	0·13·42	0·13·85	0·13·96	0·14·51	0·14·49	0·13·79	0·14·55		0·14·68	0·15·43	
5	0·15·44	0·13·21	0·13·40	0·13·70	0·14·83		0·13·86	0·14·60	0·14·44	0·15·29	0·14·21	0·16·12
6	0·15·45			*0·13·24	0·15·00	0·14·54	0·13·87	0·14·26	0·14·94	0·15·44		0·16·06
7	0·14·91	0·13·53	0·13·49	*0·14·18	*0·15·09	0·14·70	0·14·43		0·14·64	0·15·20	0·15·56	0·16·14
8	0·14·63	0·13·33	0·14·02	0·13·82	*0·15·56	0·14·46	0·14·51	0·14·72	0·14·33	0·15·49	0·15·75	0·15·79
9		0·13·27	0·13·57	0·13·65		0·14·29	0·14·64	0·14·42	0·14·74		0·16·30	0·15·81
10	0·15·18	0·13·27	0·13·62		0·15·20	0·14·31		0·14·27	0·13·72	0·15·64	0·15·96	0·16·43
11	0·14·57	0·13·07	0·13·67	0·13·39	0·15·01	0·14·59	0·14·32	0·14·64		0·15·52	0·16·30	
12	0·14·67	0·13·14	0·13·05	0·12·53	0·15·26		0·14·53	0·14·83	0·14·18	0·15·41	0·15·93	0·15·79
13	0·14·48			0·13·36	0·15·15	0·15·11	0·14·74	0·14·16	0·15·23	*0·16·14		0·15·97
14	0·14·03	0·13·50	0·13·61	0·13·72	0·14·90	0·15·97	0·14·30	0·14·85	0·14·67	*0·15·85	0·16·20	0·15·77
15	0·14·48	0·13·49	0·13·59	0·13·26	*0·14·93	0·15·12	0·14·59		0·14·49	*0·14·74	0·16·09	0·15·93
16		0·13·56	0·13·49	0·13·40	*0·15·61	0·15·29	0·14·64	0·14·75	0·14·97		0·15·90	0·15·60
17	0·14·57	0·13·42	0·13·09			0·14·89		0·14·47	0·15·29	*0·15·32	0·16·20	*0·17·72
18	0·14·14	0·13·25	0·12·94	0·14·61	0·14·99	0·14·58	0·14·28	0·14·37		0·15·25	0·16·02	
19	0·14·18	0·13·66	*0·14·37	*0·14·40	0·14·57		0·14·30	0·14·97	0·14·96	0·15·66	0·16·19	*0·17·97
20	0·14·21			*0·15·55	0·15·23	0·14·88	0·14·72	0·14·51	0·15·65	*0·14·73		*0·17·88
21	0·14·31	0·13·33	0·13·97	*0·15·43	*0·14·71	0·14·45	0·14·91		0·15·23	*0·14·11	0·16·19	0·16·70
22	0·14·09	0·13·93	0·13·60	0·14·74		0·15·00	0·14·59	0·15·76	0·15·31	*0·15·00	*0·16·32	0·16·25
23		0·13·72	0·13·40	0·14·88	0·14·63	0·15·04	0·14·55	0·14·89	0·15·46	*0·16·71	0·17·00	0·16·15
24	0·13·84	0·13·64	0·12·99		0·14·67	0·15·00		0·14·88	*0·17·71		0·16·68	
25	0·14·27	0·13·99	0·12·89	0·14·26	0·14·80	0·14·53	0·14·57	0·15·01		*0·16·65	*0·17·15	
26	0·13·89	0·13·59	0·13·18	0·14·42	0·14·63		0·14·32	0·14·57	*0·15·62	0·16·44	0·16·48	0·15·86
27	0·14·36			0·15·05	0·14·53	0·14·37	0·14·05	0·13·95	*0·16·83	0·15·90		0·15·61
28	0·14·31	0·13·29	0·13·82	0·14·57	0·14·50	*0·14·65	0·14·22		0·15·54	0·15·72	0·15·90	0·16·05
29	0·15·03		0·13·57	0·14·68		0·14·53	0·14·81	0·15·31	*0·15·93	0·15·57	0·16·27	0·16·32
30			0·13·50	0·15·19	0·14·51	0·13·80	0·14·22	0·14·27	0·15·46		0·15·91	0·16·38
31	*0·15·19		0·13·84		0·14·00			0·14·64		0·15·86		0·15·93

* Abnormal Days or Days of Magnetic Disturbance: these days were cancelled in the monthly and hourly means of the observed Declination, as shewn both by the Large and Small Declination Magnetometers, given in the following Tables.

TABLE III.—*Shewing for each Month the Mean Value of Absolute Declination (Easterly), and its Periodic Changes from the Mean of the Year.*

(As obtained by Means of the Large Declination Magnetometer.)

1847. MONTHS.	Mean Easterly Declination.	Difference from the Mean of the Year.
January.....	0°13′903	−0′119
February.....	0·14·078	0·056
March.....	0·14·224	0·202
April.....	0·14·118	0·096
May.....	0·13·909	−0·113
June.....	0·13·518	−0·504
July.....	0·13·363	−0·659
August.....	0·13·801	−0·221
September.....	0·13·855	−0·167
October.....	0·14·469	0·447
November.....	0·14·495	0·473
December.....	0·14·525	0·503

FOR SEASONS.

Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter.. 0°14′282

Mean of {Apr. May, June, / July, Aug. Sept.} or Summer. 0°13′761

Mean of the Year... 0°14′022

Greatest Mean Declination in Dec..... 0°14′525 E.

Least „ „ in July.... 0°13′363 E.

Difference... 0°1′162

P. 447. *In Table IV. the following figures are to be substituted for the column of "Difference of the Mean Declination," &c.*

0'55
-0·59
-0·72
-0·12
0·88
1·16
1·09
0·80
0·97
1·05
1·50
1·49

TABLE IV.—*Shewing for each Month the Mean of the Scale Readings of the Small Declinometer reduced to Arc value, and the Difference of the Mean thus reduced from the Mean Declination shewn by the Large Declination Magnetometer.*

1847. MONTHS.	Mean of the Scale Readings of Small Declinometer reduced to Arc value.	Difference from the Mean Declination of the Month, as shewn by the Large Declinometer.
January	0°14′45	−0′07
February	0·13·49	−1·03
March	0·13·50	−1·02
April	0·13·99	−0·53
May	0·14·79	0·27
June	0·14·68	0·16
July	0·14·36	−0·16
August	0·14·60	0·08
September	0·14·82	0·30
October	0·15·52	1·00
November	0·15·99	0·47
December	0·16·01	1·49

From the Tables III. and IV. it is manifest, that the periodical changes in the Declination are very small; also—

The Magnetic Declination was *more Easterly* in Winter.

and *less Easterly* in Summer.

TABLE V.—*Mean Value of Absolute Easterly Declination in each Month, for each hour of Göttingen Mean Solar Time.*

(As obtained by means of the Large Declination Magnetometer.)

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	H. M.
Noon.	0°14′493	0°14·797	0°14′420	0°14′420	0°14·027	0°13′594	0°13′506	0·13·933	0·14·336	0°14′372	0°14′595	0·14·615	4 12 P. M.
1						0·13·717	0·13·813	0·14·230	0·14·317	0·13·813	0·14·089	0·14·267	5 12 ,,
2	0·13·739	0·13·892	0·13·966	0·13·900	0·14·162	0·13·507	0·13·639	0·13·977	0·13·796	0·13·568	0·14·330	0·14·304	6 12 ,,
3						0·13·047	0·13·039	0·13·442	0·13·628	0·14·012	0·14·644	0·14·771	7 12 ,,
4	0·14·063	0·14·220	0·14·135	0·13·882	0·13·610	0·13·073	0·12·922	0·13·380	0·13·762	0·14·085	0·14·489	0·14·777	8 12 ,,
5						0·13·261	0·13·120	0·13·588	0·13·721	0·14·020	0·14·450	0·14·702	9 12 ,,
6	0·13·994	0·14·133	0·14·209	0·14·085	0·13·859	0·13·331	0·13·211	0·13·695	0·13·687	0·14·200	0·14·517	0·14·688	10 12 ,,
7						0·13·526	0·13·381	0·13·738	0·13·916	0·14·344	0·14·662	0·14·723	11 12 ,,
8	0·14·006	0·14·163	0·14·316	0·14·402	0·14·039	0·13·628	0·13·479	0·13·902	0·14·009	0·14·499	0·14·695	0·14·758	0 12 A. M.
9						0·13·740	0·13·601	0·13·988	0·13·993	0·14·566	0·14·878	0·14·891	1 12 ,,
10	0·13·547	0·14·119	0·14·264	0·14·433	0·14·105	0·13·779	0·13·703	0·14·115	0·13·995	0·14·685	0·14·908	0·14·616	2 12 ,,
11						0·13·768	0·13·748	0·14·123	0·14·052	0·14·523	0·14·594	0·14·534	3 12 ,,
12	0·13·759	0·13·888	0·13·950	0·14·248	0·14·200	0·13·924	0·13·891	0·14·163	0·14·072	0·14·282	0·14·314	0·14·417	4 12 ,,
13						0·14·362	0·14·333	0·14·483	0·14·313	0·14·352	0·14·035	0·14·165	5 12 ,,
14	0·13·380	0·13·922	0·14·157	0·15·413	0·15·462	0·15·553	0·15·526	0·15·669	0·15·538	0·14·961	0·13·942	0·14·071	6 12 ,,
15						0·16·066	0·15·922	0·16·539	0·16·874	0·16·353	0·14·212	0·13·656	7 12 ,,
16	0·14·219	0·14·683	0·15·684	0·16·197	0·16·319	0·15·793	0·15·395	0·16·168	0·16·724	0·16·981	0·14·826	0·14·329	8 12 ,,
17						0·14·508	0·13·994	0·14·784	0·15·155	0·16·552	0·14·965	0·14·713	9 12 ,,
18	0·14·049	0·13·822	0·15·465	0·13·873	0·13·393	0·13·188	0·12·540	0·13·271	0·13·543	0·14·987	0·14·580	0·14·816	10 12 ,,
19						0·11·988	0·11·459	0·12·073	0·11·746	0·13·427	0·14·027	0·14·488	11 12 ,,
20	0·13·184	0·13·049	0·13·078	0·11·701	0·11·508	0·11·214	0·10·933	0·11·534	0·10·779	0·12·976	0·14·011	0·14·354	0 12 P. M.
21						0·11·250	0·11·147	0·11·508	0·10·916	0·13·318	0·14·488	0·14·606	1 12 ,,
22	0·14·345	0·14·292	0·13·045	0·12·865	0·12·240	0·11·980	0·11·738	0·12·004	0·12·081	0·13·942	0·14·849	0·14·755	2 12 ,,
23						0·12·654	0·12·670	0·12·939	0·13·558	0·14·431	0·14·782	0·14·722	3 12 ,,

TABLE VI.—*Mean of the Scale Readings of the Small Declination Magnetometer, reduced to Arc value in each Month, for each hour of Göttingen Mean Solar Time.*

Göttingen Mean Time.	MONTHS, 1847.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.	East.
Noon.	0°14'88	0°14'16	0°13'77	0°14'35	0°15'00	0°14'77	0°14'61	0°14'77	0°15'36	0°15'35	0°16'10	0°16'08
1						0·14·87	0·14·83	0·14·97	0·15·21	0·14·75	0·15·55	0·15·71
2	0·14·29	0·13·33	0·13·19	0·13·76	0·14·92	0·14·62	0·14·58	0·14·69	0·14·71	0·14·60	0·15·83	0·15·76
3						0·14·26	0·14·04	0·14·21	0·14·62	0·15·03	0·16·04	0·16·18
4	0·14·57	0·13·61	0·13·38	0·13·70	0·14·46	0·14·27	0·13·94	0·14·15	0·14·69	0·15·09	0·16·01	0·16·22
5						0·14·40	0·14·08	0·14·32	0·14·58	0·14·98	3·15·99	0·16·19
6	0·14·53	0·13·56	0·13·42	0·13·96	0·14·79	0·14·42	0·14·18	0·14·47	0·14·62	0·15·17	0·16·03	0·16·07
7						0·14·64	0·14·36	0·14·49	0·14·80	0·15·44	0·16·08	0·16·18
8	0·14·58	0·13·55	0·13·58	0·14·28	0·14·96	0·14·75	0·14·49	0·14·66	0·14·91	0·15·50	0·16·18	0·16·25
9						0·14·81	0·14·61	0·14·85	0·14·89	0·15·56	0·16·19	0·16·31
10	0·14·47	0·13·61	0·13·44	0·14·27	0·15·01	0·14·91	0·14·63	0·14·86	0·14·98	0·15·62	0·16·26	0·16·19
11						0·14·98	0·14·67	0·14·93	0·15·06	0·15·40	0·16·05	0·16·07
12	0·14·26	0·13·41	0·13·35	0·14·19	0·15·06	0·15·15	0·14·88	0·14·99	0·15·01	0·15·35	0·15·91	0·15·98
13						0·15·61	0·15·35	0·15·35	0·15·27	0·15·35	0·15·58	0·15·72
14	0·13·97	0·13·34	0·13·43	0·15·18	0·16·39	0·16·72	0·16·52	0·16·55	0·16·59	0·16·07	0·15·48	0·15·69
15						0·17·24	0·16·88	0·17·35	0·17·78	0·17·33	0·15·74	0·15·29
16	0·14·87	0·14·01	0·14·96	0·15·99	0·17·06	0·16·86	0·16·30	0·16·89	0·17·67	0·17·95	0·16·27	0·15·78
17						0·15·55	0·14·89	0·15·54	0·16·04	0·17·40	0·16·38	0·16·38
18	0·14·49	0·13·25	0·14·71	0·13·55	0·14·14	0·14·15	0·13·51	0·14·04	0·14·35	0·15·92	0·16·02	0·16·32
19						0·18·10	0·12·38	0·12·88	0·12·77	0·15·59	0·15·59	0·15·92
20	0·13·60	0·12·48	0·12·34	0·11·73	0·12·55	0·12·47	0·12·05	0·12·33	0·11·93	0·14·02	0·15·62	0·15·75
21						0·12·55	0·12·20	0·12·43	0·12·03	0·14·45	0·16·09	0·15·97
22	0·14·87	0·13·65	0·12·43	0·12·89	0·13·22	0·13·19	0·12·83	0·12·89	0·13·26	0·15·06	0·16·43	0·16·18
23						0·13·98	0·13·69	0·13·82	0·14·60	0·15·50	0·16·38	0·16·17

To obtain the mean Monthly Diurnal Changes, from each of the Instruments, the following Tables have been prepared.

TABLE VII.—*Mean Diurnal Changes of Declination by Large Declination Magnetometer, for each Month, the Monthly Mean being taken as the standard.*
(As obtained by subtracting Table III. from Table V.)

Göttingen Mean Time.	MONTHS, 1847.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Noon.	0'590	0'719	0'196	0'302	0'118	0'076	0'143	0'132	0'481	-0'097	0'100	0'090
1						0·199	0·450	0·429	0·462	-0·656	-0·406	-0·258
2	-0·110	-0·186	-0·258	-0·218	0·253	-0·011	0·276	0·176	-0·059	-0·901	-0·165	-0·221
3						-0·471	-0·324	-0·359	-0·227	-0·457	0·149	0·246
4	0·160	0·142	-0·089	-0·236	-0·299	-0·445	-0·441	-0·421	-0·093	-0·384	-0·006	0·252
5						-0·259	-0·243	-0·213	-0·134	-0·449	-0·045	0·177
6	0·091	0·065	-0·015	-0·083	-0·059	-0·187	-0·152	-0·106	-0·168	-0·269	0·022	0·133
7						0·008	0·018	-0·068	0·061	-0·125	0·167	0·198
8	0·103	0·085	0·092	0·304	0·130	0·110	0·116	0·101	0·154	0·030	0·190	0·233
9						0·192	0·238	0·187	0·138	0·097	0·338	0·276
10	-0·356	0·041	0·040	0·315	0·196	0·261	0·340	0·314	0·140	0·216	0·413	0·091
11						0·260	0·385	0·322	0·197	0·054	0·099	0·009
12	-0·144	-0·190	-0·274	0·130	-0·291	0·406	0·528	0·352	0·217	-0·167	-0·181	-0·108
13						0·844	0·970	0·652	0·468	-0·116	-0·460	-0·360
14	-0·528	-0·156	-0·067	1·295	1·563	2·035	2·163	1·868	1·633	0·495	-0·553	-0·164
15						2·548	2·559	2·738	3·019	1·884	-0·283	-0·369
16	0·316	0·555	1·460	2·079	2·410	2·275	2·032	2·357	2·869	2·512	0·331	-0·196
17						0·990	0·631	0·983	1·300	2·088	0·470	0·188
18	0·146	-0·256	1·241	-0·245	-0·516	-0·380	-0·823	-0·530	-0·312	0·518	0·085	0·291
19						-1·530	-1·904	-1·725	-2·109	-1·042	-0·468	-0·042
20	-0·719	-1·029	-1·146	-2·417	-2·401	-2·304	-2·430	-2·267	-3·076	-1·498	-0·484	-0·371
21						-2·268	-2·216	-2·293	-2·939	-1·151	-0·007	0·081
22	0·442	0·214	-1·179	-1·258	-1·669	-1·538	-1·625	-1·797	-1·774	-0·527	0·354	0·230
23						-0·864	-0·693	-0·863	-0·297	-0·038	0·237	0·197

TABLE VIII.—*Mean Diurnal Changes of Declination by the Small Declination Magnetometer, for each Month, the Monthly Mean being taken as the standard.*

(As obtained by subtracting Table IV. from Table VI.)

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	0·43	0·67	0·27	0·36	0·21	0·09	0·25	0·17	0·54	-0·17	0·11	0·07	4 12 P. M.
1						0·19	0·47	0·37	0·39	-0·77	-0·44	-0·30	5 12 ,,
2	-0·16	-0·16	-0·31	-0·23	0·13	-0·06	0·22	0·09	-0·11	-0·92	-0·16	-0·25	6 12 ,,
3						-0·42	-0·32	-0·39	-0·20	-0·49	0·05	0·17	7 12 ,,
4	0·12	0·12	-0·12	-0·29	-0·33	-0·41	-0·42	-0·45	-0·13	-0·43	0·02	0·21	8 12 ,,
5						-0·28	-0·28	-0·28	-0·24	-0·54	0·00	0·18	9 12 ,,
6	0·05	0·07	-0·08	-0·03	0·00	-0·26	-0·18	-0·13	-0·20	-0·35	0·04	0·06	10 12 ,,
7						-0·04	0·00	-0·11	-0·02	-0·08	0·09	0·17	11 12 ,,
8	0·13	0·06	0·09	0·29	0·17	0·07	0·13	0·06	-0·09	-0·02	0·19	0·24	0 12 A. M.
9						0·13	0·25	0·25	0·07	0·03	0·20	0·39	1 12 ,,
10	0·02	0·12	-0·06	0·28	0·22	0·23	0·27	0·26	0·16	0·10	0·27	0·18	2 12 ,,
11						0·30	0·31	0·33	0·24	-0·12	0·06	0·06	3 12 ,,
12	-0·19	-0·08	-0·15	0·20	0·27	0·47	0·52	0·39	0·19	-0·17	-0·08	-0·03	4 12 ,,
13						0·93	0·99	0·75	0·45	-0·17	-0·41	-0·29	5 12 ,,
14	-0·48	-0·15	-0·07	1·19	1·60	2·04	2·16	1·95	1·77	0·55	-0·51	-0·32	6 12 ,,
15						2·56	2·52	2·75	2·96	1·81	-0·25	-0·72	7 12 ,,
16	0·42	0·52	1·46	2·00	2·27	2·18	1·94	2·29	2·76	2·43	0·28	-0·23	8 12 ,,
17						0·87	0·53	0·94	1·22	1·88	0·39	0·37	9 12 ,,
18	0·04	-0·24	1·21	-0·44	-0·65	-0·53	-0·85	-0·56	-0·47	0·40	0·03	0·31	10 12 ,,
19						-1·58	-1·98	-1·72	-2·05	0·07	-0·40	-0·09	11 12 ,,
20	-0·05	-1·01	-1·16	-2·26	-2·24	-2·21	-2·31	-2·27	-2·89	-1·50	-0·37	-0·26	0 12 P. M.
21						-2·13	-2·16	-2·17	-2·79	-1·07	0·10	-0·04	1 12 ,,
22	0·42	0·16	-1·07	-1·10	-1·57	-1·49	-1·53	-1·71	-1·56	-0·46	0·44	0·17	2 12 ,,
23						-0·70	-0·67	-0·78	-0·22	-0·02	0·39	0·16	3 12 ,,

In the Tables VII. and VIII. the *Negative* sign shews that the Declination was to the West of the Mean Declination, by the quantity opposite to which the sign is prefixed; the figures without any sign shew the reverse of the preceding.

TABLE IX.—*Shewing for the Year* 1847, *the Mean Value of Absolute Declination (Easterly) for each even Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean.*

(As obtained by means of the Large Declination Magnetometer.)

Göttingen Mean Time.	Bombay Civil Time.	Mean Easterly Declination.	Difference from the Mean of the whole.
	H. M.	East.	
Noon.	4 12 P. M.	0°14′259	-0°231
2	6 12 ,,	0·13·903	-0·125
4	8 12 ,,	0·13·967	-0·161
6	10 12 ,,	0·13·964	-0·064
8	0 12 A. M.	0·14·157	0·129
10	2 12 ,,	0·14·189	0·161
12	4 12 ,,	0·14·092	0·064
14	6 12 ,,	0·14·799	0·771
16	8 12 ,,	0·15·606	1·578
18	10 12 ,,	0·13·961	-0·067
20	0 12 P. M.	0·12·360	-1·668
22	2 12 ,,	0·13·178	-0·850

FOR DAY AND NIGHT.

Mean of { G. M. T. 2, 4, 6, 8, 10, 12 } or Night.... 0°14′029

Mean of { 14, 16, 18, 20, 22, 0 } or Day..... 0°14′027

Mean..... 0°14′028

TIME OF MEAN MAXIMUM AND MINIMUM.

	G. M. T. H. M.		B. C. T.
A Maximum in the Evening at	0 10	or	4 22 P. M.
,, Minimum ditto ditto ,,	3 20	or	7 32 ,,
,, Maximum about Midnight ,,	9 00	or	1 12 A. M.
,, Minimum in the Morning ,,	12 30	or	4 42 ,,
,, Maximum ditto ditto ,,	15 40	or	7 52 ,,
,, Minimum about Mid-day ,,	20 20	or	0 32 P. M.

TABLE X.—*Shewing for the year* 1847, *the Mean of the Scale Readings of the Small Declination Magnetometer, reduced to arc Value for each even Hour of Göttingen and Bombay Mean Time: also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean of the Scale Reading of the Small Declination Magnetometer, reduced to Arc value.	Difference from the Mean of the whole.
	H. M.		
Noon.	4 12 P. M.	0°14′93	0′24
2	6 12 „	0·14·52	−0·17
4	8 12 „	0·14·51	−0·18
6	10 12 „	0·14·60	−0·09
8	0 12 A. M.	0·14·81	0·12
10	2 12 „	0·14·85	0·16
12	4 12 „	0·14·79	0·10
14	6 12 „	0·15·49	0·80
16	8 12 „	0·16·21	1·52
18	10 12 „	0·14·54	−0·15
20	0 12 P. M.	0·13·07	−1·62
22	2 12 „	0·13·91	−0·78

FOR DAY AND NIGHT.

Mean of { G. M. T. 2, 4, 6, / 8, 10, 12 } or Night.... 0°14′68

Mean of { 14, 16, 18, / 20, 22, 0 } or Day..... 0°14′69

Mean..... 0°14′68

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G. M. T. H. M.	B. C. T.
A Maximum in the Evening at	0 10	4 22 P. M.
„ Minimum ditto ditto „	3 20	7 32 „
„ Maximum about Midnight „	9 00	1 12 A. M.
„ Minimum in the Morning „	12 30	4 42 „
„ Maximum ditto ditto „	15 40	7 52 „
„ Minimum about Mid-day „	20 20	0 32 P. M.

The Observations were taken only two-hourly for the first five months of the year. The *hourly* means cannot therefore be found for the mean of the whole year: in the Tables IX. and X. only two-hourly means are given, the odd hours of the seven remaining months being thrown out of consideration.

From these Tables it is manifest that during the night the Declination is remarkably constant, when the changes during the day-time are considered:—Thus, during *day* time, the Declination varies from 12′4 to 15′6, a change of nearly 3′2, while during the night it varies only from 13′9 to 14′2, or 0′3.

TABLE XI.—*Shewing for the Year* 1847, *the Hours of Göttingen Mean Solar Time at which in each Month the Magnetic Declination was at its Maxima and Minima.*

(By the Large Declination Magnetometer.)

1847. MONTHS.	The Mean Hourly Declination at its						Mean Diurnal Range.	Göttingen Mean Solar Time of					
	Maximum in the Evening.	Minimum in the Evening.	Maximum about Midnight.	Minimum in the Morning.	Maximum in the Morning.	Minimum about Mid-day.		Evening Maximum.	Evening Minimum.	Midnight Maximum.	Morning Minimum.	Morning Maximum.	Mid-day Minimum.
	East.	East.	East.	East.	East.	East.		Hour.	Hour.	Hour.	Hour.	Hour.	Hour.
January. ..	0°14′493	0°13′793	0°14′006	0°13′060	0°14′219	0°13′181	1′309	24	2	8	14	16	20
February...	·14·797	·13·892	·14·163	·13·883	·14·633	·13·049	1·748	24	2	8	12	16	20
March.....	·14·420	·13·966	·14·316	·13·950	·15·684	·13·045	2·639	24	2	8	12	16	22
April.....	·14·420	·13·882	·14·433	·14·248	·16·197	·11·701	4·496	24	4	10	12	16	20
May.....	·14·162	·13·610			·16·319	·11·508	4·811	26	4			16	20
June.....	·13·717	·13·047			·16·066	·11·214	4·852	25	3			15	20
July.....	·13·813	·12·922			·15·922	·10·933	4·989	25	4			15	20
August.....	·14·230	·13·380			·16·539	·11·508	5·031	25	4			15	21
September..	·13·796	·13·628			·16·874	·10·779	6·095	26	3			15	20
October....	·14·431	·13·568	·14·685	·14·282	·16·981	·12·976	4·005	23	2	10	12	16	20
November..	·14·849	·14·089	·14·908	·13·942	·14·965	·14·011	1·023	22	1	10	14	17	20
December..	·14·755	·14·267	·14·801	·13·656	·14·816	·14·354	1·160	22	1	9	15	18	20

TABLE XII.—*Shewing for the year* 1847, *the Hours of Göttingen Mean Solar Time at which, in each Month, the Magnetic Declination was at its Maxima and Minima.*

(By the Small Declination Magnetometer.)

1847. MONTHS.	The Mean Hourly Scale Reading of the Small Declination Magnetometer, reduced to Arc Value at						Mean Diurnal Range.	Göttingen Mean Solar Time of					
	Maximum in the Evening.	Minimum in the Evening.	Maximum about Midnight.	Minimum in the Morning.	Maximum in the Morning.	Minimum about Mid-day.		Evening Maximum.	Evening Minimum.	Midnight Maximum.	Morning Minimum.	Morning Maximum.	Mid-day Minimum.
	East.	East.	East.	East.	East.	East.		Hour.	Hour.	Hour.	Hour.	Hour.	Hour.
January	0°14'38	0°14'29	0°14'58	0°13'97	0°14'57	0°13'60	1'28	24	2	8	14	16	20
February	·14·16	·13·33	·13·61	·13·34	·14·01	·12·48	1·68	24	2	10	14	16	20
March	·13·77	·13·19	·13·58	·13·35	·14·96	·12·34	2·62	24	2	8	12	16	20
April	·14·35	·13·76	·14·28	·14·19	·15·99	·11·73	4·26	24	2	3	12	16	20
May	·15·00	·14·46			·17·06	·12·55	4·51	24	1			16	20
June	·14·87	·14·26			·17·24	·12·47	4·77	25	3			15	20
July	·14·83	·13·94			·16·88	·12·05	4·83	25	4			15	20
August	·14·97	·14·15			·17·35	·12·33	5·02	25	4			15	20
September	·15·36	·14·62			·17·79	·11·93	5·86	24	3			15	20
October	·15·50	·14·60	·15·62	·15·35	·17·95	·14·02	3·93	23	2	10	13	16	20
November	·16·43	·15·55	·16·26	·15·48	·16·38	·15·59	0·95	22	1	10	14	17	19
December	·16·18	·15·71	·16·31	·15·29	·16·39	·15·75	1·09	22	1	9	15	17	20

From the Tables XI. and XII. it is manifest that

The Diurnal Range of Magnetic Declination is *greater* during Summer, and *less* during Winter.

The times of *Maxima* and *Minima* have also periodical variation. The *Midnight Maximum* and the *Morning Minimum* almost vanish during Summer, but are quite perceptible during Winter. The *Mid-day or the principal Minimum* remains nearly unchanged during the course of the year. The *Evening Maximum* and the *Evening Minimum* are later in Summer, and earlier in Winter; and the *Morning Maximum* and the *Morning Minimum* are earlier in Summer, and later in Winter.

EXTRAORDINARY CHANGES.

During certain days in the year, the Magnets were disturbed; the days on which the Magnetic disturbance took place, were named Abnormal. In forming the preceding Tables, these days were scrupulously thrown out, so that those Tables may be supposed to give the *Normal* state of the Magnetic Declination.

Comparing the Normal state of the Magnetic Declination with the *extraordinary* changes that take place during a Disturbance, the force of the Disturbance, and its nature, will be found out.

The following Table was prepared with this view, and it indicated that the tendency of the Disturbance was more to increase than to decrease the Easterly Declination.

TABLE XIII.—*The Greatest and the Least Extraordinary Position of the Declination Magnetometer in the Simple hourly Observations during the year* 1847.

GREATEST DECLINATION. (Large Declinometer.)

DATE AND TIME.	(G. M. T.)	The Extreme Greatest.	Average from the calculated Results.	Above the Average.
	H. M.	East.	East.	
1 February	0 0	0°15·9	0°14·6	1·3
1 March	10 0	·17·1	·14·2	2·9
19 „	10 0	·15·8	·14·3	1·5
20 April	10 0	·16·9	·14·4	2·5
21 „	2 0	·17·1	·13·9	3·2
8 May	0 0	·18·1	·14·1	4·0
15 „	14 0	·16·4	·15·5	0·9
16 „	0 0	·16·7	·14·0	2·7
24 September	2 0	·21·5	·13·8	7·7
27 „	0 0	·20·3	·14·3	6·0
29 „	16 0	·17·7	·16·8	0·9
23 October	4 0	·18·0	·14·1	3·9
22 November	11 0	·18·0	·14·5	3·5
17 December	8 0	·19·8	·14·7	5·1
19 „	23 0	·24·0	·14·7	9·3
20 „	0 0	·23·5	·14·6	8·9

LEAST DECLINATION. (Large Declinometer.)

DATE AND TIME.	(G. M. T.)	The Extreme Least.	Average from the calculated Results.	Below the Average.
	H. M.	East.	East.	
18 February	18 0	0°12·2	0°13·8	−1·6
1 March	20 0	·12·3	·13·1	0·8
12 April	18 0	·10·2	·14·0	3·8
20 „	20 0	·10·7	·11·7	1·0
14 May	20 0	·10·8	·11·5	0·7
22 October	19 0	·10·8	·13·5	2·7
22 November	16 0	·10·1	·14·8	4·7
17 December	17 0	·12·7	·14·7	2·0
19 „	14 0	·10·8	·14·1	3·3
20 „	19 0	·9·0	·14·5	−5·5

MAGNETIC HORIZONTAL FORCE OF THE EARTH.

ABSOLUTE DETERMINATIONS.

From the Absolute Determinations of the Horizontal Force, made once every day (Sundays excepted), the absolute values of the Horizontal Intensity were obtained.

The observation was made every day about 20^h G. M. T. (or noon at Bombay); the Magnet deflected was I·11; the deflecting Magnet was A·51: the Horizontal Intensity obtained is given in English units, *i. e.* the units taken into the calculation were:—*a foot*, *a grain*, and *a second* of time.

The Absolute Horizontal Force has been calculated by the formula:—

$$X' = \frac{1}{R^3 \cdot \tan u}$$

$$X = \frac{\pi}{t\left(1+\frac{\delta X}{2X}\right)} \sqrt{\frac{2}{1+\kappa}} \cdot KX'$$

See "Results of Magnetical Observations" for 1845, by Mr. Orlebar.

And the moment of the deflecting Magnet by,

$$LM = \frac{1+\kappa}{2} \cdot \frac{X'}{X}$$

Where R = the distance of the deflecting Magnet.

u = the Angle of Deflection.

t = the time of one Vibration, corrected for Torsion and Rate of Chronometer.

K = the moment of Inertia.

π = 3·14159

$\frac{\delta X}{2X}$ = Variation of Horizontal Force, between Deflections and Vibrations.

$1+\kappa$ = the Torsion Force of the deflected Magnet.

In the actual working of the formula the term $\left(1+\frac{\delta X}{2X}\right)$ was rejected, for it was in general inconsiderable; the Vibrations and Deflections of A·51 were also uncorrected for Co-efficient of Temperature, for this, if any, was also inconsiderable.

The following Tables give the value of LM, X, and the corresponding readings of both the Large and Small Horizontal Force Magnetometers:—

TABLE XIV.—*Absolute Determinations of Horizontal Force.*

Date, 1847.		Name of Magnet.	L M	X	Horizontal Force Magnetometer Scale Reading.		Date, 1847.		Name of Magnet.	L M	X	Horizontal Force Magnetometer Scale Reading.	
					Large.	Small.						Large.	Small.
JAN.	1	A·51	0·1055	7·938	19·20	10·35	MAR.	5	A·51	0·1013	7·929	19·05	5·96
	2							6					
	3	,,	0·1057	7·913	18·95	10·05		7	,,	0·1006	7·982	18·21	5·60
	4	,,	0·1053	7·923	18·55	9·77		8	,,	0·1011	7·934	18·55	5·95
	5	,,	0·1055	7·916	18·95	10·56		9	,,	0·1013	7·928	19·11	6·45
	6	,,	0·1053	7·933	18·81	9·93		10	,,	0·1010	7·941	18·66	5·76
	7	,,	0·1052	7·924	18·85	9·70		11	,,	0·1006	7·962	19·16	6·00
	8	,,	0·1010	7·940	20·36	11·35		12	,,	0·1008	7·950	18·85	5·76
	9							13					
	10	,,	0·1013	7·923	18·95	9·60		14	,,	0·1008	7·954	19·35	5·52
	11	,,	0·1011	7·944	19·35	10·52		15	,,	0·1009	7·939	18·31	4·30
	12	,,	0·1014	7·912	19·24	9·86		16	,,	0·1074	7·942	18·80	5·30
	13	,,	0·1012	7·926	18·75	9·96		17	,,	0·1074	7·983	18·90	6·05
	14							18	,,	0·1032	7·943	18·48	5·15
	15	,,	0·1010	7·953	19·00	9·40		19	,,	0·1068	7·917	16·40	2·10
	16							20					
	17	,,	0·1012	7·930	18·74	9·97		21	,,	0·1077	7·968	18·18	4·70
	18	,,	0·1011	7·940	18·85	9·62		22	,,	0·1075	7·981	18·17	4·50
	19							23	,,	0·1082	7·954	17·24	3·65
	20							24	,,	0·1091	7·911	17·80	3·55
	21							25	,,	0·1075	7·959	17·80	3·80
	22							26					
	23							27	,,	0·1080	7·940		
	24	,,	0·1012	7·928	18·91	10·35		28	,,	0·1076	7·957	18·75	4·46
	25	,,	0·1014	7·920	18·41	9·45		29	,,	0·1079	7·939	19·05	4·70
	26	,,	0·1016	7·929	19·90	10·35		30	,,	0·1081	7·919	18·66	4·58
	27	,,	0·1015	7·931	20·26	9·35		31	,,	0·1079	7·934	18·71	4·57
	28												
	29						APRIL	1	,,	0·1079	7·932	19·14	4·80
	30							2	,,	0·1072	7·994	19·35	4·80
	31							3					
								4	,,	0·1068	7·992	18·37	3·26
FEB.	1	,,	0·1016	7·942	20·92	8·65		5					
	2	,,	0·1021	7·964	21·55	7·75		6					
	3	,,	0·1013	7·940	20·70	7·10		7	,,	0·1051	7·921	14·85	*33·00
	4	,,	0·1013	7·933	19·33	6·60		8	,,	0·1052	7·960	17·15	36·07
	5	,,	0·1015	7·939	19·60	8·15		9	,,	0·1050	7·970	17·75	36·65
	6							10					
	7	,,	0·1014	7·921	18·84	7·64		11	,,	0·1050	7·966	18·57	37·91
	8	,,	0·1014	7·927	19·15	7·06		12	,,	0·1055	7·934	19·80	38·00
	9	,,	0·1013	7·919	18·75	7·15		13	,,	0·1051	7·962	18·30	37·04
	10	,,	0·1013	7·937	18·75	7·45		14	,,	0·1046	7·944	18·00	36·88
	11	,,	0·1013	7·925	18·45	7·70		15	,,	0·1047	7·940	17·85	37·05
	12	,,	0·1012	7·936	18·25	7·65		16	,,	0·1047	7·947	17·55	36·50
	13							17					
	14	,,	0·1014	7·920	19·60	8·02		18	,,	0·1046	7·952	18·65	36·55
	15	,,	0·1014	7·924	20·05	7·12		19	,,	0·1045	7·951	17·92	37·35
	16	,,	0·1006	7·980	19·75	7·40		20	,,	0·1049	7·911	17·61	36·40
	17	,,	0·1007	8·001	19·35	7·25		21	,,	0·1047	7·916	16·81	35·30
	18	,,	0·1011	7·937	19·10	6·57		22	,,	0·1045	7·934	17·38	35·70
	19	,,	0·1007	7·975	19·60	7·40		23	,,	0·1044	7·947	17·90	36·35
	20							24					
	21	,,	0·1008	7·936	19·20	6·85		25	,,	0·1044	7·946	18·00	36·21
	22	,,	0·1009	7·962	17·85	5·00		26	,,	0·1046	7·928	18·25	35·75
	23	,,	0·1010	7·950	19·40	7·05		27	,,	0·1045	7·937	18·00	35·61
	24	,,	0·1013	7·932	18·55	6·18		28					
	25	,,	0·1009	7·955	18·35	5·88		29					
	26	,,	0·1010	7·952	18·95	6·60		30					
	27												
	28	,,	0·1013	7·941		6·40							
							MAY	1					
								2	,,	0·1043	7·928	18·30	35·35
MAR.	1	,,	0·1010	7·951	17·75	5·14		3	,,	0·1040	7·948	18·25	32·17
	2	,,	0·1010	7·929	18·15	5·60		4	,,	0·1045	7·938	18·95	35·90
	3	,,	0·1010	7·933	18·85	6·16		5	,,	0·1043	7·952	18·90	35·86
	4	,,	0·1011	7·941	18·25	5·41		6	,,	0·1039	7·990	18·65	35·32

* Instrument newly adjusted.

TABLE XIV.—*Absolute Determinations of Horizontal Force* (continued).

Date, 1847.	Name of Magnet.	L M	X	Horizontal Force Magnetometer Scale Reading. Large.	Small.	Date, 1847.	Name of Magnet.	L M	X	Horizontal Force Magnetometer Scale Reading. Large.	Small.
MAY 7	A·51	0·1048	7·894	16·40	30·90	JULY 9	A·51	0·1034	7·973	17·95	29·25
8						10					
9	,,	0·1039	7·965		33·45	11	,,	0·1041	7·926	18·20	29·80
10	,,	0·1044	7·939	17·91	34·60	12	,,	0·1041	7·925	18·35	29·99
11	,,	0·1039	7·939	18·09	34·89	13	,,	0·1038	7·955	18·40	29·80
12	,,	0·1041	7·961	18·29	34·35	14	,,	0·1038	7·954	18·80	30·20
13	,,	0·1042	7·949	18·55	34·60	15	,,	0·1035	7·984	19·45	31·05
14	,,	0·1043	7·953	18·75	34·90	16	,,	0·1043	7·924	19·00	30·40
15						17					
16	,,	0·1045	7·937	17·75	33·40	18	,,	0·1040	7·941	19·30	30·24
17	,,	0·1040	7·961		33·13	19	,,	0·1044	7·972	19·60	29·64
18	,,	0·1043	7·941	17·60	34·15	20	,,	0·1040	7·940	18·85	29·60
19	,,	0·1044	7·926	17·55	33·98	21	,,	0·1040	7·940	18·80	30·20
20	,,	0·1043	7·937	17·45	32·90	22					
21	,,	0·1039	7·965	17·75	33·30	23	,,	0·1041	7·948	19·00	30·00
22						24					
23	,,	0·1044	7·935	18·25	33·98	25	,,	0·1043	7·956	19·30	29·75
24	,,	0·1042	7·941	18·00	33·56	26	,,	0·1040	7·934	19·55	29·40
25	,,	0·1044	7·928	18·05	33·46	27	,,	0·1039	7·940	19·27	29·40
26	,,	0·1043	7·936	18·66	34·65	28	,,	0·1038	7·940	19·70	30·07
27	,,	0·1042	7·933	17·90	32·95	29	,,	0·1039	7·931	18·64	28·55
28	,,	0·1044	7·933	18·20	34·70	30	,,	0·1037	7·956	19·61	29·60
29						31					
30	,,	0·1040	7·957	18·91	34·15						
31	,,	0·1043	7·937	18·25	33·20						
						AUG. 1	,,	0·1031	7·965	20·65	29·98
						2	,,	0·1031	7·939	18·96	28·69
JUNE 1	,,	0·1045	7·928	18·15	34·00	3	,,	0·1029	7·945	19·93	29·79
2	,,	0·1037	8·001	19·30	34·60	4	,,	0·1019	7·996	17·45	26·80
3	,,	0·1039	7·959	18·65	33·40	5	,,	0·1030	7·947	19·20	28·70
4	,,	0·1036	7·982	18·61	33·78	6	,,	0·1029	7·942	19·45	28·95
5						7					
6	,,	0·1039	7·968	18·75	33·10	8	,,	0·1030	7·932	18·70	27·68
7	,,	0·1046	7·910	18·50	33·20	9	,,	0·1027	7·956	19·10	28·22
8	,,	0·1043	7·914	18·77	33·42	10	,,	0·1027	7·946	19·42	28·60
9	,,	0·1036	7·976	18·70	33·30	11					
10	,,	0·1036	7·976	18·55	33·35	12	,,	0·1011	7·960	20·24	29·50
11	,,	0·1041	7·949	19·80	34·24	13	,,	0·1010	7·970	20·45	29·36
12						14	,,	0·1016	7·927	20·09	29·30
13	,,	0·1039	7·961	18·80	32·52	15					
14	,,	0·1040	7·963	18·05	31·40	16	,,	0·1013	7·951	19·96	28·66
15	,,	0·1040	7·951	18·55	32·00	17					
16	,,	0·1042	7·934	19·20	33·72	18	,,	0·1009	7·980	19·09	27·88
17	,,	0·1042	7·936	18·60	31·97	19	,,	0·1013	7·950	19·90	28·40
18	,,	0·1038	7·972	19·00	32·56	20	,,	0·1011	7·966	20·42	28·74
19						21					
20	,,	0·1040	7·952	18·80	32·03	22	,,	0·1011	7·952	18·34	26·34
21	,,	0·1043	7·928	19·39	32·84	23	,,	0·1009	7·952	17·56	25·70
22	,,	0·1042	7·934	19·30	32·75	24	,,	0·1010	7·955	19·31	27·43
23	,,	0·1039	7·946	20·00	33·76	25	,,	0·1011	7·939	18·58	26·44
24	,,	0·1043	7·922	19·75	32·70	26	,,	0·1010	7·966	19·83	27·73
25	,,	0·1042	7·936	19·65	32·63	27	,,	0·1013	7·932	19·45	27·31
26						28					
27	,,	0·1039	7·954	19·89	33·17	29	,,	0·1008	7·985	19·87	27·42
28	,,	0·1037	7·972	19·52	32·32	30	,,	0·1011	7·958	20·05	27·58
29	,,	0·1040	7·947	19·82	32·51	31	,,	0·1011	7·965	20·35	28·05
30	,,	0·1033	8·002	18·95	31·40						
						SEPT. 1	,,	0·1012	7·950	20·18	28·02
JULY 1	,,	0·1041	7·935	19·70	32·40	2	,,	0·1012	7·951	20·15	27·65
2	,,	0·1041	7·930	19·70	32·30	3	,,	0·1012	7·951	19·50	26·95
3						4					
4	,,	0·1037	7·965	19·28	31·30	5	,,	0·1013	7·951	20·15	27·55
5	,,	0·1036	7·977	19·85	32·05	6	,,	0·1016	7·934	20·27	27·85
6	,,	0·1040	7·956	20·08	32·45	7	,,	0·1012	7·954	20·68	27·85
7	,,	0·1038	7·949	18·65	30·85	8	,,	0·1012	7·962	21·05	28·20
8	,,	0·1040	7·952	19·25	31·04	9	,,	0·1007	7·953	20·10	26·75

TABLE XIV.—*Absolute Determinations of Horizontal Force* (continued).

Date, 1847.		Name of Magnet.	L M	X	Horizontal Force Magnetometer Scale Reading.	
					Large.	Small.
Sept.	10	A·51	0·1011	7·930	20·15	27·02
	11					
	12	,,	0·1015	7·925	19·53	26·00
	13	,,	0·1014	7·923	18·62	24·86
	14	,,	0·1008	7·978	19·14	25·30
	15	,,	0·1015	7·932	20·18	26·38
	16	,,	0·1010	7·952	19·89	25·65
	17	,,	0·1009	7·975	19·66	25·40
	18					
	19	,,	0·1013	7·932	20·11	25·60
	20	,,	0·1013	7·934	18·98	24·48
	21	,,	0·1007	7·979	19·65	24·95
	22	,,	0·1014	7·932	19·72	25·25
	23	,,	0·1012	7·926	18·74	23·90
	24	,,	0·1012	7·917	16·50	21·25
	25					
	26	,,	0·1014	7·905	17·24	22·30
	27	,,	0·1014	7·909	17·14	22·10
	28	,,	0·1009	7·942	18·75	23·92
	29	,,	0·1012	7·928	17·70	22·90
	30	,,	0·1013	7·933	19·25	24·44
Oct.	1	,,	0·1014	7·926	19·04	24·47
	2					
	3	,,	0·1009	7·964	19·38	24·77
	4	,,	0·1013	7·935	19·60	24·75
	5					
	6	,,	0·1008	7·973	20·30	24·90
	7	,,	0·1011	7·985	21·94	27·12
	8	,,	0·1014	7·932	20·88	25·63
	9					
	10	,,	0·0987	7·931	19·50	23·17
	11	,,	0·0983	7·968	19·70	23·46
	12					
	13	,,	0·0980	7·970	19·44	22·20
	14	,,	0·0985	7·942	19·72	23·24
	15	,,	0·0985	7·940	19·70	22·52
	16					
	17	,,	0·0981	7·966	18·75	22·47
	18	,,	0·0985	7·942	19·22	23·09
	19	,,	0·0982	7·954	19·05	22·66
	20					
	21	,,	0·0985	7·950	20·00	22·99
	22	,,	0·0982	7·926	20·16	23·25
	23					
	24	,,	0·0963	7·941	13·50	15·56
	25	,,	0·0970	7·947	17·22	19·82
	26	,,	0·0979	7·938	17·20	19·55
	27	,,	0·0990	7·948	17·70	20·11
	28	,,	0·0979	7·954	18·00	20·06
	29	,,	0·0979	7·970	19·15	20·05
	30					
	31	,,	0·0980	7·939	18·88	20·60
Nov.	1	,,	0·0981	7·932	17·63	19·00
	2	,,	0·0981	7·946	18·55	20·20
	3	,,	0·0982	7·936	19·25	20·02
Nov.	4	A·51	0·0981	7·958	20·36	22·09
	5	,,	0·0983	7·939	20·97	22·52
	6					
	7	,,	0·0982	7·939	20·50	20·68
	8	,,	0·0980	7·965	21·15	21·16
	9	,,	0·0981	7·958	20·85	20·42
	10	,,	0·0981	7·952	20·07	19·60
	11	,,	0·0980	7·956	20·77	20·30
	12	,,	0·0979	7·966	20·85	20·17
	13					
	14	,,	0·0979	7·933	20·22	19·49
	15	,,	0·0980	7·951	20·40	20·09
	16	,,	0·0981	7·941	19·64	18·45
	17	,,	0·0981	7·952	20·43	19·44
	18	,,	0·0979	7·961	20·26	19·25
	19	,,	0·0979	7·958	19·85	19·05
	20	,,	0·0980	7·955	20·32	19·32
	21					
	22	,,	0·0975	7·969	17·28	16·05
	23					
	24	,,	0·0979	7·922	18·14	18·35
	25	,,	0·0979	7·938	17·97	16·78
	26	,,	0·0979	7·963	19·80	19·30
	27					
	28	,,	0·0979	7·965	21·17	19·23
	29	,,	0·0979	7·962	21·18	18·86
	30	,,	0·0979	7·977	20·65	19·22
Dec.	1	,,	0·0980	7·935	19·14	17·98
	2	,,	0·0984	7·907	19·25	17·48
	3	,,	0·0978	7·974	20·46	18·15
	4					
	5	,,	0·0980	7·956	20·52	18·34
	6	,,	0·0979	7·957	20·85	18·68
	7	,,	0·0979	7·974	20·54	18·17
	8	,,	0·0978	7·965	20·14	17·50
	9	,,	0·0981	7·940	20·42	18·30
	10	,,	0·0980	7·951	19·90	17·86
	11					
	12	,,	0·0979	7·953	21·18	17·94
	13	,,	0·0991	7·935	20·57	17·50
	14	,,	0·0972	7·962	21·15	18·58
	15	,,	0·0973	7·950	20·46	17·34
	16	,,	0·0973	7·951	21·32	17·90
	17	,,	0·0975	7·930	19·70	15·72
	18					
	19	,,	0·0967	7·965	17·35	16·77
	20	,,	0·0976	7·906	16·11	13·22
	21	,,	0·0975	7·922	18·66	16·05
	22	,,	0·0975	7·940	21·05	18·70
	23	,,	0·0974	7·950	20·24	17·98
	24					
	25					
	26	,,	0·0972	7·971	21·24	18·72
	27	,,	0·0972	7·958	20·63	17·56
	28	,,	0·0970	7·972	20·88	17·60
	29	,,	0·0972	7·956	20·05	16·54
	30	,,	0·0972	7·953	19·99	16·48
	31	,,	0·0972	7·954	19·85	16·84

TABLE XV.—*Monthly Mean Values of* L M, *and* X, *with the corresponding Mean Scale Readings of Large and Small Horizontal Force Magnetometers.*

Date, 1847.	Name of Magnet.	L M	X	Horizontal Force Magnetometer.		Mean Dip observed.
				Large.	Small.	
			R. Units.	Scale.	Scale.	
January	A·51	0·1026	7·929	19·11	10·01	18°31′
February	,,	0·1012	7·944	18·50	7·11	18·26
March	,,	0·1046	7·945	17·74	4·84	18·39
April	,,	0·1051	7·946	17·91	*36·35	18·28
May	,,	0·1042	7·943	16·70	34·05	18·15
June	,,	0·1040	7·952	18·04	33·33	18·18
July	,,	0·1039	7·948	19·13	30·37	18·11
August	,,	0·1017	7·955	19·48	28·13	18·02
September	,,	0·1012	7·941	19·36	25·51	18·03
October	,,	0·0988	7·949	19·00	22·45	18·11
November	,,	0·0980	7·953	19·93	20·33	18·19
December	,,	0·0976	7·950	20·07	17·46	18·12

* Newly adjusted on the 7th.

Upon comparing the Values of X in this Table with the corresponding Scale Readings of both the Large and the Small Horizontal Force Magnetometers, it will be seen that, independent of the increase of X, the Scale Readings of the Large Instrument were slowly increasing, and that the Scale Readings of the Small Instrument were rapidly decreasing, throughout the year.

HORIZONTAL FORCE MAGNETOMETERS.

In the Observatory there are two of these instruments:—

1st. The Large Horizontal Force Magnetometer, which is similar, in all its parts, to that mentioned in the Royal Society's Report on Physical Research of 1840: the Bar Magnet is 15 inches in length, and suspended by two silver wires, nearly 30 inches long; the Readings are taken by a Collimator, attached to the Magnet, and a Reading Telescope fixed to the pillar on which the Magnetometer itself stands.

2nd. The Small Horizontal Force Magnetometer is of the same construction as that mentioned in Ridell's "Instructions:" the Magnet is a hollow Cylinder, nearly 3 inches in length, and is suspended by two silk fibres of thread, about 6 inches in length; the Scale is fixed to the Reading Telescope, and read by reflection from the mirror attached to the Magnet; the Reading Telescope is mounted upon a separate pillar, at 5·3 feet distance from the Instrument.

A difference has been found to exist in the working of the two Instruments, arising from the nature of the different substances by which the Magnets are suspended. The silk fibres which suspend the Small Horizontal Force Magnet have been found to be very much affected by moisture, and as the Hygrometric state of the weather is constantly varying, the readings of this Instrument are thereby affected. This is not the case with the Large Horizontal Force Magnet, as Hygrometric changes in the atmosphere can have no effect on the silver wires by which it is suspended.

From comparisons made between the Scale Readings of these Instruments and the Absolute Determinations, it was found that both the Magnetometers are subject to changes of Scale Readings, arising from the changes of their temperatures; and independent of all other changes, they are subject to a kind of regular change, which goes on from day to day, and from year to year: this, perhaps, is entirely owing to their regular loss or gain of Magnetism.

To obtain the Hourly, Diurnal, and Periodical Changes in the Earth's Horizontal Intensity, it is necessary that the observed Scale Readings should be corrected for all these changes. Therefore, in the following Tables, the Scale Readings of both Instruments, together with the Temperature of the attached Thermometers, are given; next follow the corrected Scale Readings, and then the same reduced to Absolute Value of the Earth's Horizontal Force. In these values the Intensity obtained from the Large Horizontal Force Magnetometer is to be considered of prime value, as that of the Small Horizontal Force Magnetometer is only differential.

TABLE XVI.—*Mean of the Scale Readings (uncorrected) of the Large Horizontal Force Magnetometer for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.
1	18·61	19·29	17·09	*18·16		17·94	18·69	18·80	*9·42	18·24	*17·20	*19·59
2		20·51	17·60	18·47	17·66	18·30	19·05	18·71	*9·52		18·08	*18·97
3	18·30	20·30	18·10		17·62	18·14		19·07	*9·11	18·24	18·29	19·26
4	18·22	19·39	17·66	17·76	17·98		18·70	*18·37		18·60	19·39	
5	48·36	18·86	18·02	17·75	18·11	18·01	18·73	*18·03	19·15	18·51	20·27	19·52
6	18·29			17·78	17·99	18·38	18·85	18·62	19·29	18·81		19·65
7	18·53	18·31	18·00	*16·60	17·37	18·18	18·27		19·54	*19·26	20·25	19·72
8	18·89	18·65	17·97	*16·42	*16·04	18·36	18·44	18·53	19·89	18·85	19·88	19·23
9		18·54	18·00	17·17		18·18	*17·90	18·49	19·42		19·77	19·64
10	18·58	18·28	18·13		17·22	17·83		18·63	19·47	18·37	19·10	19·48
11	18·66	17·90	18·44	17·83	17·47	18·17	17·67	18·69		18·52	19·19	
12	18·64	17·94	18·53	18·30	17·67		17·87	19·02	*18·97	*18·30	19·66	20·46
13	18·52			17·96	17·93	18·06	18·03	19·38	*17·70	*16·60		20·20
14	18·55	19·12	18·05	17·56	18·14	17·62	18·09	18·86	18·71	17·95	19·33	20·23
15	18·40	19·47	17·85	17·45	*16·63	17·89	18·13		18·93	18·09	19·53	20·29
16		19·02	17·82	17·40	*15·74	18·08	18·39	19·00	19·21		18·93	*20·63
17	18·38	18·70	18·15			18·17		*19·04	18·66	17·85	19·67	*18·27
18	18·46	18·38	17·98	17·56	17·15	17·98	18·33	18·96		17·78	19·75	
19	18·59	18·95	*15·78	*18·01	17·19		18·58	18·93	18·92	17·97	19·38	*15·83
20	18·25			*15·98	17·24	17·93	18·19	19·01	18·36	18·33		*14·03
21	18·21	*18·99	*17·06	*15·72	17·26	18·38	18·36		18·93	18·74	19·43	*17·55
22	18·39	*17·16	17·66	16·77		18·35	18·43	17·42	18·84	*18·44	*18·25	19·03
23		17·99	17·20	17·19	17·40	18·77	18·24	18·27	*18·51	*13·22	17·87	19·24
24	18·18	*18·07	17·16		17·30	18·94		18·30	*13·30		18·54	
25	18·17	*18·24	17·41	17·40	17·50	18·63	18·40	17·89		*15·65	*17·33	
26	19·07	18·40	17·64	17·78	17·75		18·73	18·52	*17·01	16·91	*18·38	20·03
27	19·81			17·71	*17·78	18·73	18·62	18·77	*15·40	17·35		19·69
28	19·78	18·60	18·11	17·74	*17·65	18·98	18·80		17·44	17·95	20·15	19·94
29	18·74		18·09	*17·49		19·04	18·91	19·03	17·29	18·17	20·65	19·31
30			17·93	*17·06	17·93	18·72	18·74	18·98	18·01		20·04	19·31
31	18·74		17·97		17·80			19·02		18·21		19·44

* Abnormal days, or days of Magnetic Disturbance.

TABLE XVII.—*Mean Temperature of Large Horizontal Force Magnetometer for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	81°1	72°8	80°7	83°5		83°8	81°1	83°6	82°7	84°0	84°6	81°0
2		67·3	81·2	82·2	85°4	82·2	80·3	83·0	82·5		83·7	81·2
3	81·1	70·8	81·5		85·6	83·6		82·2	82·1	85·0	83·4	81·0
4	80·9	75·9	82·2	82·9	85·1		82·7	82·1		84·4	78·4	
5	80·5	79·4	82·2	84·1	85·3	84·7	83·2	81·9	81·4	83·6	76·9	81·3
6	80·0			85·0	85·3	85·1	82·8	81·5	81·3	83·9		81·9
7	79·7	77·7	81·1	85·1	85·6	83·9	83·0		80·4	83·7	77·5	82·0
8	79·5	76·7	81·0	84·7	85·9	82·8	82·6	82·2	78·4	84·1	77·4	80·9
9		78·1	80·6	84·7		84·7	82·8	82·8	76·3		78·2	79·9
10	79·7	80·0	79·7		86·9	84·3		82·9	79·8	85·4	78·2	79·4
11	79·1	81·5	79·4	84·7	86·9	83·0	84·2	82·3		85·8	76·8	
12	78·7	80·6	80·4	84·4	86·1		83·6	81·9	82·3	86·5	79·9	76·4
13	79·1			83·7	85·6	82·6	83·4	82·6	82·9	86·6		78·9
14	80·1	76·5	82·7	83·6	85·5	84·4	83·4	81·7	82·4	85·1	80·3	78·7
15	80·8	76·0	84·2	84·4	85·8	84·9	83·7		82·6	84·7	80·8	78·6
16		77·7	84·3	85·5	86·3	84·2	83·6	83·2	82·8		80·6	77·5
17	80·9	79·5	84·3			84·1		83·2	83·0	86·6	80·2	77·5
18	81·2	79·8	82·7	86·3	86·0	85·5	83·3	83·0		86·4	79·6	
19	81·7	77·3	82·5	83·8	86·3		83·2	82·8	83·4	85·6	80·3	79·4
20	81·6			81·4	86·0	86·3	84·3	83·1	82·6	85·3		80·1
21	81·2	79·0	82·2	85·4	87·1	85·0	84·4		82·4	85·0	80·5	79·8
22	81·1	81·0	82·6	85·6		83·3	84·2	83·1	82·8	85·0	80·3	78·7
23		79·4	83·9	85·6	88·2	81·6	83·9	82·1	82·9	85·9	80·2	79·2
24	83·0	78·1	83·7		88·3	81·9		82·5	82·9		80·3	
25	82·6	77·8	83·0	86·4	87·4	83·4	82·6	82·9		86·5	80·6	
26	78·1	78·0	83·1	85·4	86·3		82·8	82·5	82·8	87·2	79·9	78·2
27	74·8			84·9	85·8	82·0	82·7	82·4	83·3	86·9		79·6
28	74·8	79·4	83·5	84·5	85·2	82·2	81·7		83·2	85·6	75·9	80·0
29	75·6		83·5	84·5		80·0	81·4	82·5	83·2	85·4	75·2	80·9
30			83·3	84·8	85·2	81·6	83·1	82·6	82·5		79·4	80·7
31	72·5		83·8		86·3			83·0		85·9		81·3

TABLE XVIII.—*Mean of the Scale Readings (uncorrected) of the Small Horizontal Force Magnetometer for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.
1	9·96	7·65	4·68	3·88		33·24	31·10	28·76	26·77	23·60	*19·05	18·88
2		7·33	5·27	4·00	34·93	33·34	31·36	28·60	26·92		20·41	18·15
3	9·69	6·81	5·83		34·73	32·38		28·96	26·52	23·79	20·09	18·13
4	9·57	6·70	5·34	2·72	35·07	32·77	30·68	*29·07		23·87	21·23	
5	10·09	7·41	5·55	2·89	35·10		30·72	*27·56	26·36	23·28	21·53	18·09
6	9·83			†	34·91	32·94	30·90	27·98	26·35	23·67		18·13
7	10·10	7·06	5·31	*35·26	34·27	32·81	30·18		25·45	*24·15	20·81	18·09
8	10·37	6·71	5·24	*35·39	32·73	32·76	30·30	27·78	26·49	23·69	20·03	17·40
9		6·87	5·26	36·28		32·55	*29·57	27·81	25·97		19·71	17·78
10	9·77	7·11	5·35		33·93	32·11		27·91	26·19	22·51	19·34	17·65
11	9·80	7·25	5·49	36·98	33·95	32·55	29·26	27·88		22·67	19·49	
12	9·58	7·09	5·86	37·43	33·86		29·54	27·91	*25·54	*22·30	19·40	17·78
13	9·60			36·86	34·08	31·80	29·44	28·38	*24·11	*20·72		17·91
14	9·84	7·18	4·92	36·46	34·28	31·18	29·50	27·76	25·51	21·79	19·45	17·90
15	9·57	6·94	4·34	36·54	*32·64	31·50	29·47		25·30	21·49	19·60	17·89
16		6·64	4·53	36·53	*31·41	31·80	29·71	27·76	25·42		18·71	*17·96
17	9·78	6·55	5·57			31·63		*27·83	24·72	21·79	19·26	*15·44
18	9·61	6·31	5·16	35·81	33·09	31·47	29·54	27·89		21·40	19·09	
19	9·77	6·60	*2·23	*36·66	33·31		29·63	27·52	24·75	21·93	18·83	*12·47
20	9·33			*34·36	33·05	31·20	29·13	27·48	24·48	22·22		*10·92
21	9·06	*6·75	3·44	*34·17	33·05	31·80	29·24		24·18	22·35	18·91	*15·06
22	9·12	*5·35	4·01	35·44		31·70	29·28	25·47	24·21	*21·56	*17·51	16·70
23		5·93	3·56	35·64	33·25	31·97	29·05	26·49	*23·64	*15·69	17·12	16·95
24	9·62	*5·64	3·58		33·14	31·78		26·31	*17·89		18·07	
25	9·25	*5·88	3·51	35·87	33·05	31·27	28·61	25·84		*18·38	*16·74	
26	9·80	6·09	3·72	35·56	33·26		29·13	26·61	*22·15	19·68	18·07	17·70
27	9·11			35·43	*33·10	31·68	28·85	26·81	*20·32	20·09		17·49
28	8·77	6·15	3·78	35·49	*33·09	31·58	29·12		22·79	20·23	18·92	17·44
29	7·66		3·74	*36·07		31·70	28·93	26·71	22·69	20·24	18·53	16·75
30			3·70	*34·35	33·05	31·02	28·71	26·91	23·61		18·76	16·58
31	6·38		3·94		32·95			26·55		20·03		16·79

* Abnormal days. † Magnetometer newly adjusted.

TABLE XIX.—*Mean Temperature of Small Horizontal Force Magnetometer for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	76°9	68°5	78°6	81°6		80°7	78°7	81°0	79°7	81°1	80°6	77°3
2		61·3	78·8	80·0	83°6	79·7	78·2	80·4	79·8		79·4	77·3
3	76·4	67·4	78·9		84·0	81·4		79·4	78·6	81·6	80·3	77·0
4	77·1	73·8	79·3	80·7	82·6	82·7	81·0	79·7		80·6	74·5	
5	76·7	77·0	79·4	81·6	83·3		81·3	82·2	78·8	80·9	73·8	77·2
6	76·2				83·5	83·0	80·5	79·6	78·5	80·6		77·6
7	76·2	74·0	78·6	83·0	84·2	81·3	80·9		77·6	80·7	72·5	77·3
8	76·9	73·6	78·6	84·6	84·3	80·1	80·4	79·7	76·1	81·1	74·2	76·0
9		74·9	77·7	82·8		82·5	80·6	80·3	75·8		75·3	74·5
10	76·0	76·0	76·5		85·1	81·6		80·3	77·4	82·2	74·9	74·2
11	75·1	78·0	76·2	82·6	85·1	80·3	82·0	79·7		82·7	75·3	
12	74·6	76·9	77·5	82·5	84·0		80·9	78·1	80·0	83·5	76·6	71·7
13	75·3			82·0	83 6	80·5	80·8	79·5	80·2	83·2		74·9
14	76·3	73·0	80·9	81·8	83·4	83·0	81·7	79·4	79·2	81·3	77·1	74·0
15	77·4	72·5	82·4	82·0	84·1	83·6	81·2		80·0	81·1	76·6	73·6
16		75·0	82·0	83·9	84·4	80·9	81·2	80·3	79·9		76·3	72·5
17	77·1	77·0	81·3			82·0		80·5	80·2	82·4	75·9	73·9
18	77·5	77·0	80·3	83·8	83·6	84·0	80·6	80·1		82·9	75·3	
19	78·2	73·7	80·0	80·3	84·4		80·6	80·3	80·1	82·4	76·3	75·8
20	78·1			81·6	84·3	84·6	81·9	80·5	79·2	81·2		75·7
21	77·2	76·7	79·9	83·6	85·8	82·6	82·1		79·4	81·8	76·2	75·4
22	77·7	78·7	80·6	83·6		80·0	81·4	80·3	79·8	81·8	75·7	74·4
23		76·7	81·9	83·5	85·9	78·9	81·2	79·1	79·6	83·0	75·7	74·9
24	78·8	74·8	81·5		86·3	79·8		79·5	79·4		76·1	
25	78·9	74·9	81·2	84·2	85·0	81·9	78·6	80·1		83·1	76·5	
26	73·4	74·9	81·0	83·8	83·6		78·1	79·4	79·1	84·4	75·9	73·5
27	69·8			83·0	83·4	79·5	80·1	79·2	80·2	83·4		75·4
28	69·9	77·2	80·9	82·8	82·4	80·0	79·0		80·0	82·1	71.1	76·1
29	71·9		80·8	83·0		76·9	78·8	79·6	79·3	82·0	70·7	76·7
30			81·3	83·1	83·3	79·5	80·3	79·4	78·8		75·8	76·5
31	68·0		82·3		84·4			80·3		82·7		77·5

TABLE XX.—*Mean of the Scale Readings (corrected) of the Large Horizontal Force Magnetometer for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.
1	18·96	16·90	17·15	19·04		18·65	18·52	19·37	19·32	18·78	*17·85	*19·00
2		16·38	17·81	18·92	19·06	18·69	18·66	19·09	19·65		18·43	*18·44
3	18·64	17·26	18·41		19·30	18·72		19·18	19·11	19·09	18·55	18·66
4	18·50	17·98	18·19	18·44	19·28	19·09	19·06	*18·45		19·26	*18·05	
5	18·51	18·67	18·55	18·81	19·48		19·25	*18·05	18·92	18·91	18·45	19·98
6	18·26			19·09	19·35	19·58	19·24	18·50	19·02	19·30		19·34
7	18·41	17·46	18·17	*17·96	18·82	19·00	18·72		18·99	19·68	18·61	19·43
8	18·71	17·48	18·11	*17·67	17·27	18·83	18·76	18·62	18·70	19·40	18·21	18·62
9		17·82	18·01	18·41		19·25	*18·29	18·79	18·20		18·15	18·65
10	19·45	18·17	17·84		19·08	18·77		18·95	18·72	19·33	17·77	18·35
11	18·50	18·26	18·06	19·06	19·33	18·69	18·49	18·82		19·61	17·96	
12	18·19	18·01	18·47	19·45	19·27		18·50	19·02	*18·97	*19·61	18·78	18·40
13	18·19			18·86	19·36	18·44	18·69	19·59	*17·93	*17·90		18·90
14	18·54	17·87	18·71	18·43	19·54	18·55	18·65	18·78	18·81	18·80	18·73	18·86
15	18·62	18·06	18·99	18·57	*18·13	19·01	18·78		19·06	18·81	18·93	18·89
16		18·15	19·00	18·77	*17·39	18·96	19·01	19·40	19·36		18·25	*18·93
17	18·62	18·40	19·33			19·02		*19·43	18·91	19·17	18·85	*16·51
18	18·79	18·18	18·63	19·29	18·70	19·28	18·85	19·29		19·34	18·75	
19	19·08	17·96	*16·37	*18·94	18·84		19·06	19·20	19·30	18·97	18·61	*14·68
20	18·70			*17·04	18·75	19·49	19·03	19·38	18·97	19·24		*13·10
21	18·53	*18·52	*17·54	*17·15	19·15	19·51	19·22		18·98	19·54	18·68	*16·52
22	18·68	*17·34	18·28	18·26		18·94	19·22	17·77	19·02	*19·26	*17·57	17·64
23		17·68	18·23	19·68	19·64	18·80	19·14	18·30	*18·72	*14·32	17·05	18·01
24	19·07	*17·31	18·11		19·56	19·08		18·43	*13·50		17·75	
25	18·93	*17·38	18·14	19·14	19·48	19·24	18·66	18·17		*16·92	*16·63	18·47
26	18·39	17·60	18·40	19·20	19·38		19·07	18·65	*17·18	18·39	17·43	18·58
27	18·08			18·97	*19·25	18·89	18·92	18·90	*15·73	18·75		18·95
28	18·03	18·25	19·00	18·33	*18·91	19·20	18·77		17·73	18·92	17·94	18·61
29	17·24		18·98	*18·58		18·55	18·32	19·17	17·57	19·08	18·21	18·54
30			18·75	*18·28	19·19	18·73	19·16	19·15	18·07		18·89	18·86
31	16·25		18·91		19·41			19·32		19·28		

* Abnormal days.

TABLE XXI.—*Mean of the Scale Readings (corrected) of the Small Horizontal Force Magnetometer for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	10·72	8·78	9·24	10·91		45·63	45·35	46·58	46·66	46·05	*44·32	*45·80
2		*8·18	9·97	11·14	46·48	45·65	45·68	46·29	47·07		45·33	*45·45
3	10·11	8·52	10·77		46·31	45·84		46·41	46·43	46·80	45·27	45·45
4	10·44	9·52	10·36	9·93	46·45	46·12	46·18	*45·60		46·65	44·88	
5	10·98	9·90	10·69	10·18	46·75		46·40	*45·15	46·36	46·51	45·25	46·09
6	10·92				46·74	46·71	46·44	45·73	46·46	46·72		46·24
7	11·10	9·22	10·30	*44·70	46·21	46·05	45·86		46·40	47·17	45·17	46·33
8	11·45	9·62	10·38	*44·99	*44·77	45·75	45·95	45·67	45·61	46·83	45·15	45·26
9		9·56	10·17	45·78		46·26	*45·39	45·92	45·47		45·04	45·28
10	*11·07	9·91	10·13		46·39	45·67		46·11	46·09	46·71	44·66	44·91
11	10·93	10·11	10·23	46·46	45·58	45·82	45·41	46·03		46·96	45·12	
12	10·55	10·24	10·71	46·84	46·89		45·58	45·97	*45·31	*46·44	45·39	45·41
13	10·54			46·39	46·45	*45·43	45·65	46·65	*45·14	*44·74		45·73
14	11·04	10·34	11·21	45·86	46·54	45·63	45·97	46·16	46·19	45·92	45·30	45·87
15	11·29	10·48	11·46	45·91	*45·25	46·30	45·92		46·62	45·83	45·56	45·92
16		10·29	11·18	46·57	*44·29	45·89	46·15	46·44	46·84		44·60	*45·97
17	11·08	10·19	11·24			46·06		*46·58	46·43	45·87	45·48	*43·86
18	11·36	9·99	10·92	47·12	45·45	46·49	45·95	46·79		45·60	45·23	
19	11·77	9·85	*8·47	*46·26	45·89		46·23	46·57	46·44	46·17	44·97	*41·03
20	11·26			*44·16	45·91	46·59	46·15	46·72	46·18	46·32		*39·29
21	10·98	*10·54	*9·56	*44·59	46·34	46·52	46·43		46·08	46·75	45·22	*43·46
22	11·17	*9·64	10·32	45·93		45·69	46·22	44·88	46·27	*46·40	*43·76	44·80
23		9·72	10·35	46·45	46·62	45·81	46·04	45·47	*45·70	*40·74	43·27	45·36
24	11·41	*9·45	10·23		46·77	45·98		45·44	39·94		44·30	
25	11·67	*9·33	10·38	46·83	46·67	46·32	*45·07	45·25		*43·59	*43·16	
26	11·27	9·69	10·38	46·81	46·34		45·58	45·84	*44·06	45·38	44·19	46·33
27	10·72			46·45	*46·21	45·93	45·95	46·11	*42·56	45·61		46·58
28	10·21	10·51	10·91	46·38	*45·86	46·17	45·86		44·79	45·80	44·95	47·13
29	9·41		10·81	*46·22		*45·46	45·86	46·48	44·60	46·12	44·74	46·47
30			10·51	*45·72	46·22	45·39	46·26	46·46	45·51		45·55	46·43
31	8·04		10·85		46·53			46·69		46·05		46·89

* Abnormal days.

TABLE XXII.—*Mean of the Scale Readings (uncorrected) of the Large Horizontal Force Magnetometer in each Month, for each hour of Göttingen Mean Solar Time.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	H. M.
Noon.	17·98	18·29	17·34	17·22	17·13	18·15	18·09	18·25	18·74	17·81	18·69	19·04	4 12 P. M.
1						17·79	17·95	18·19	18·64	17·79	18·69	19·04	5 12 ,,
2	17·96	18·23	17·27	17·09	17·01	17·79	17·92	18·22	18·56	17·67	18·75	19·16	6 12 ,,
3						17·79	17·94	18·20	18·48	17·50	18·72	19·15	7 12 ,,
4	18·07	18·32	17·31	17·17	17·12	17·79	17·96	18·18	18·46	17·40	18·70	19·10	8 12 ,,
5						17·82	18·00	18·20	18·46	17·53	18·84	19·05	9 12 ,,
6	18·23	18·40	17·41	17·33	17·26	17·90	18·08	18·28	18·52	17·60	18·89	19·07	10 12 ,,
7						17·95	18·14	18·36	18·50	17·66	19·02	19·21	11 12 ,,
8	18·40	18·61	17·57	17·49	17·38	18·00	18·17	18·41	18·57	17·78	19·24	19·37	0 12 A. M.
9						18·02	18·20	18·42	18·64	17·82	19·20	19·37	1 12 ,,
10	18·55	18·75	17·75	17·48	17·46	18·09	18·24	18·44	18·67	17·84	19·27	19·48	2 12 ,,
11						18·08	18·30	18·53	18·67	17·96	19·31	19·56	3 12 ,,
12	18·71	18·92	17·88	17·51	17·47	18·13	18·31	18·61	18·73	18·02	19·46	19·68	4 12 ,,
13						18·16	18·34	18·63	18·79	18·11	19·55	19·85	5 12 ,,
14	18·90	19·03	18·04	17·78	17·73	18·36	18·50	18·77	18·87	18·27	19·72	19·94	6 12 ,,
15						18·57	18·69	18·86	18·78	18·27	19·91	20·15	7 12 ,,
16	19·34	19·45	18·42	18·23	18·16	18·80	18·92	19·15	19·07	18·64	20·23	20·47	8 12 ,,
17						19·09	19·13	19·47	19·53	19·05	20·38	20·65	9 12 ,,
18	19·46	19·64	18·82	18·66	18·55	19·24	19·34	19·50	19·27	19·39	20·47	20·71	10 12 ,,
19						19·19	19·32	19·68	19·86	19·47	20·35	20·57	11 12 ,,
20	19·08	19·46	18·53	18·21	18·25	19·04	19·19	19·56	19·44	19·18	20·11	20·39	0 12 P. M.
21						18·84	19·00	19·25	19·46	18·83	19·85	19·97	1 12 ,,
22	18·45	18·81	17·91	17·64	17·73	18·60	18·69	18·97	19·24	18·42	19·39	19·69	2 12 ,,
23						18·28	18·37	18·65	19·01	18·07	19·06	19·35	3 12 ,,

Abnormal days have been thrown out in forming this Table.

TABLE XXIII.—*Mean Temperature of the Large Horizontal Force Magnetometer in each Month, for each hour of Göttingen Mean Solar Time.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	83°6	80°4	85°0	86°8	88°2	84°7	84°3	84°0	83°5	87°7	82·6	83°4	4 12 P. M.
1						84·4	83·9	83·4	82·9	86·8	81·4	82·2	5 12 ,,
2	81·5	78·4	83·4	85·3	86·9	84·0	83·4	82·8	82·3	86·2	80·6	81·2	6 12 ,,
3						83·8	83·0	82·5	82·0	85·8	80·1	80·5	7 12 ,,
4	79·8	77·3	82·5	84·6	86·2	83·6	82·8	82·2	81·8	85·5	79·6	80·0	8 12 ,,
5						83·6	82·8	82·1	81·8	85·1	79·2	79·5	9 12 ,,
6	78·8	76·5	82·1	84·2	85·7	83·5	82·6	82·0	81·6	84·8	78·8	79·0	10 12 ,,
7						83·4	82·5	81·9	81·5	84·6	78·4	78·7	11 12 ,,
8	78·2	76·1	81·5	83·8	85·3	83·2	82·3	81·8	81·3	84·3	78·1	78·5	0 12 A. M.
9						83·1	82·2	81·7	81·1	84·0	77·7	77·8	1 12 ,,
10	77·7	75·4	80·8	83·2	84·9	82·9	82·1	81·5	81·0	83·8	77·5	77·6	2 12 ,,
11						82·7	82·0	81·3	80·8	83·6	77·3	77·3	3 12 ,,
12	76·9	74·8	80·3	82·7	84·6	82·6	81·9	81·2	80·7	83·4	76·9	77·0	4 12 ,,
13						82·4	81·8	81·0	80·6	83·2	76·6	77·1	5 12 ,,
14	76·3	74·2	79·6	82·0	84·1	82·2	81·6	80·8	80·2	82·8	76·2	76·8	6 12 ,,
15						82·3	81·8	81·1	80·3	82·9	76·3	76·6	7 12 ,,
16	76·7	74·6	80·4	83·4	85·4	82·7	82·3	81·5	80·7	83·8	77·1	77·3	8 12 ,,
17						83·3	82·8	82·4	81·5	85·1	78·6	79·2	9 12 ,,
18	79·8	77·9	83·1	85·6	87·1	83·9	83·5	83·0	82·3	86·2	80·0	80·8	10 12 ,,
19						84·2	84·0	83·9	82·9	87·0	81·0	81·4	11 12 ,,
20	82·0	80·2	84·6	86·6	87·9	84·3	84·3	84·5	83·2	87·3	81·9	82·8	0 12 P. M.
21						84·6	84·6	84·5	83·5	87·6	82·4	83·4	1 12 ,,
22	83·5	80·8	85·4	86·9	88·4	84·6	84·6	84·8	83·7	87·8	82·8	83·8	2 12 ,,
23						84·5	84·3	84·5	83·5	87·7	82·9	83·9	3 12 ,,

TABLE XXIV.—*Mean of the Scale Readings (uncorrected) of the Small Horizontal Force Magnetometer in each Month for each hour of Gottingen Mean Solar Time.*

Gottingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	H. M.
Noon.	8·95	6·21	4·05	35·76	33·24	31·64	29·29	27·02	25·08	21·57	18·57	17·10	4 12 P. M.
1						31·49	29·18	26·94	25·17	21·70	18·65	17·21	5 12 ,,
2	9·09	6·37	4·22	35·79	33·32	31·50	29·19	27·01	25·00	21·62	18·78	17·37	6 12 ,,
3						31·49	29·23	27·02	24·94	21·52	18·82	17·23	7 12 ,,
4	9·19	6·47	4·28	35·86	33·47	31·49	29·24	26·96	24·94	21·50	18·88	17·25	8 12 ,,
5						31·55	29·21	27·00	24·98	21·61	19·09	17·25	9 12 ,,
6	9·13	6·54	4·38	36·05	33·60	31·63	29·33	27·06	24·98	21·66	19·10	17·27	10 12 ,,
7						31·69	29·41	27·19	24·98	21·80	19·16	17·36	11 12 ,,
8	9·45	6·71	4·55	36·18	33·71	31·76	29·43	27·19	25·01	21·31	19·35	17·61	0 12 A. M.
9						31·79	29·45	27·20	25·11	21·88	19·37	17·47	1 12 ,,
10	9·49	6·89	4·68	36·15	32·76	31·88	29·52	27·27	25·10	21·89	19·42	17·52	2 12 ,,
11						31·91	29·54	27·30	25·12	21·96	19·46	17·61	3 12 ,,
12	9·58	7·01	4·77	36·25	33·84	31·94	29·55	27·35	25·20	22·00	19·50	17·53	4 12 ,,
13						31·96	29·58	27·35	25·24	22·10	19·65	17·75	5 12 ,,
14	9·78	7·12	4·87	36·35	33·96	32·10	29·67	27·39	25·21	22·12	19·79	17·83	6 12 ,,
15						32·34	29·85	27·47	25·14	22·18	19·96	18·04	7 12 ,,
16	10·00	7·29	4·97	36·61	34·20	32·19	30·01	27·76	25·38	22·39	20·19	18·13	8 12 ,,
17						32·78	30·35	28·08	25·85	22·51	20·21	18·17	9 12 ,,
18	10·04	7·39	5·24	36·90	34·56	32·95	30·54	28·33	26·06	23·12	20·20	18·21	10 12 ,,
19						32·93	30·52	28·33	26·23	23·05	20·02	18·03	11 12 ,,
20	9·41	7·21	5·01	36·40	34·22	32·80	30·38	28·14	26·05	22·74	19·72	17·59	0 12 P. M.
21						32·57	30·17	27·89	25·95	22·36	19·17	17·24	1 12 ,,
22	8·91	6·65	4·45	35·88	33·63	32·50	29·86	27·63	25·48	21·98	18·80	17·15	2 12 ,,
23						31·92	29·64	27·33	25·30	21·61	18·65	17·12	3 12 ,,

Abnormal days have been thrown out in forming this Table.

TABLE XXV.—*Mean Temperature of the Small Horizontal Force Magnetometer for each Month.*

Gottingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	79°9	77°6	83°0	85°9	87°0	82°5	81°6	81°2	80·6	84°3	78°8	79°5	4 12 P. M.
1						82·3	81·5	80·9	80·3	84·0	78·4	78·4	5 12 ,,
2	78·5	76·3	81·8	84·4	85·5	82·0	81·0	80·3	79·6	83·4	77·8	77·4	6 12 ,,
3						81·7	80·6	80·0	79·3	83·0	77·2	76·7	7 12 ,,
4	77·1	75·0	80·7	83·3	84·5	81·8	80·6	79·8	79·2	82·7	76·9	76·1	8 12 ,,
5						81·6	80·5	79·6	79·0	82·0	75·9	75·6	9 12 ,,
6	75·7	73·8	79·9	82·4	83·7	81·4	80·3	79·5	78·8	81·7	75·2	74·8	10 12 ,,
7						81·2	80·2	79·4	78·6	81·3	74·8	74·5	11 12 ,,
8	74·8	72·8	79·0	81·9	82·9	81·0	80·1	79·3	78·4	81·0	74·5	74·1	0 12 A. M.
9						80·8	79·8	79·0	78·2	80·8	74·5	73·7	1 12 ,,
10	74·0	72·1	78·1	81·3	82·6	80·6	79·6	78·8	78·0	80·6	73·7	73·2	2 11 ,,
11						80·4	79·5	78·6	77·8	80·2	73·4	72·8	3 12 ,,
12	72·6	71·3	77·5	80·7	82·0	80·2	79·5	78·5	77·6	80·0	73·0	72·5	4 12 ,,
13						80·0	79·1	78·4	77·3	79·7	72·7	71·8	5 12 ,,
14	71·6	70·1	76·5	80·0	81·6	79·9	79·2	78·2	77·1	79·2	72·3	71·8	6 12 ,,
15						80·0	79·3	78·5	77·2	79·2	72·0	71·7	7 12 ,,
16	71·8	70·8	77·4	81·4	82·8	80·3	79·6	78·9	77·6	79·9	72·6	72·6	8 12 ,,
17						80·8	80·1	79·4	78·1	80·6	73·5	73·1	9 12 ,,
18	74·0	73·4	79·8	83·7	84·7	81·3	80·7	80·1	78·9	81·4	74·9	74·5	10 12 ,,
19						81·5	81·1	80·7	79·3	82·7	76·5	76·1	11 12 ,,
20	77·5	76·7	82·8	85·8	86·7	81·9	81·3	81·6	80·0	83·5	77·5	77·7	0 12 P. M.
21						82·4	82·1	82·0	80·5	84·1	78·2	79·0	1 12 ,,
22	79·6	78·2	83·6	86·1	87·5	82·4	82·1	82·1	80·0	84·7	78·9	79·5	2 12 ,,
23						82·2	81·5	81·6	80·5	84·7	79·1	80·0	3 12 ,,

TABLE XXVI.—*Mean Scale Readings (corrected) of the Large Horizontal Force Magnetometer.*

Göttingen Mean Time.	MONTHS, 1847. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Bombay Civil Time.
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	H. M.
Noon.	19·08	18·29	18·73	19·12	19·38	19·20	18·94	18·91	19·16	19·49	18·66	19·18	4 12 P. M.
1						18·75	18·67	18·66	18·87	19·19	18·28	18·79	5 12 ,,
2	18·39	17·59	18·15	18·51	18·85	18·62	18·48	18·46	18·60	18·89	18·08	18·58	6 12 ,,
3						18·56	18·37	18·38	18·42	18·58	17·89	18·36	7 12 ,,
4	17·96	17·32	17·90	18·36	18·73	18·49	18·29	18·26	18·33	18·39	17·71	18·16	8 12 ,,
5						18·52	18·33	18·25	18·34	18·38	17·72	17·94	9 12 ,,
6	17·90	17·15	17·87	18·39	18·71	18·57	18·38	18·30	18·33	18·36	17·65	17·80	10 12 ,,
7						18·59	18·41	18·35	18·28	18·25	17·65	17·84	11 12 ,,
8	17·77	17·23	17·84	18·43	18·71	18·57	18·38	18·37	18·29	18·33	17·77	17·94	0 12 A. M.
9						18·56	18·37	18·34	18·29	18·38	17·60	17·72	1 12 ,,
10	17·76	17·15	17·80	18·22	18·66	18·57	18·38	18·30	18·29	18·28	17·61	17·76	2 12 ,,
11						18·49	18·41	18·33	18·23	18·38	17·59	17·85	3 12 ,,
12	17·67	17·13	17·77	18·09	18·57	18·51	18·39	18·37	18·25	18·33	17·60	17·77	4 12 ,,
13						18·48	18·35	18·33	18·23	18·36	17·60	17·97	5 12 ,,
14	17·67	17·04	17·70	18·14	18·67	18·61	18·48	18·41	18·23	18·39	17·52	17·97	6 12 ,,
15						18·85	18·74	18·59	18·15	18·42	17·67	18·11	7 12 ,,
16	18·23	17·59	18·34	19·04	19·52	19·21	19·13	19·01	18·59	19·08	18·44	18·66	8 12 ,,
17						19·60	19·55	19·64	19·11	19·90	19·07	19·44	9 12 ,,
18	19·35	18·84	19·58	20·17	20·45	20·04	19·93	19·84	19·81	20·59	19·61	20·02	10 12 ,,
19						20·08	20·07	20·31	20·09	20·93	19·81	20·07	11 12 ,,
20	19·77	19·39	19·79	20·04	20·41	19·97	20·04	20·38	20·05	20·74	19·86	20·34	0 12 P. M.
21						19·86	19·91	20·17	19·88	20·53	19·76	20·11	1 12 ,,
22	19·52	18·94	19·43	19·57	20·05	19·63	19·63	19·89	19·72	20·15	19·43	19·96	2 12 ,,
23						19·27	19·22	19·47	19·43	19·78	19·13	19·65	3 12 ,,

Abnormal days have been thrown out in forming this Table.

TABLE XXVII.—*Mean Scale Readings (corrected) of the Small Horizontal Force Magnetometer.*

Göttingen Mean Time.	MONTHS, 1847. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Bombay Civil Time.
													H. M.
Noon.	11·39	10·18	10·83	46·54	46·68	46·07	45·92	46·09	46·55	46·55	45·21	46·72	4 12 P. M.
1						45·77	45·68	45·86	46·48	46·58	44·86	45·90	5 12 ,,
2	10·82	9·73	10·37	45·91	46·06	45·66	45·60	45·68	45·96	46·01	44·74	45·77	6 12 ,,
3						45·60	45·45	45·64	45·88	45·78	44·61	45·45	7 12 ,,
4	10·54	9·52	10·19	45·61	45·91	45·59	45·48	45·52	45·82	45·62	44·50	45·37	8 12 ,,
5						45·57	45·41	45·49	45·78	45·59	44·38	45·20	9 12 ,,
6	10·22	9·35	9·88	45·48	45·82	45·59	45·46	45·55	45·73	45·53	44·32	44·98	10 12 ,,
7						45·61	45·51	45·65	45·71	45·49	44·35	44·97	11 12 ,,
8	10·15	9·12	9·95	45·47	45·82	45·63	45·54	45·60	45·61	45·41	44·26	45·01	0 12 A. M.
9						45·66	45·53	45·56	45·70	45·46	44·21	45·03	1 12 ,,
10	10·22	8·95	9·94	45·31	45·65	45·61	45·50	45·58	45·59	45·43	44·19	45·01	2 12 ,,
11						45·67	45·49	45·56	45·56	45·43	44·25	44·98	3 12 ,,
12	10·10	8·98	9·92	45·27	45·66	45·64	45·55	45·61	45·61	45·47	44·16	44·75	4 12 ,,
13						45·65	45·52	45·55	45·59	45·42	44·18	45·00	5 12 ,,
14	10·10	9·01	9·76	45·19	45·64	45·68	45·53	45·55	45·40	45·32	44·23	45·03	6 12 ,,
15						45·99	45·81	45·71	45·44	45·54	44·49	45·21	7 12 ,,
16	10·62	9·78	10·50	46·29	46·75	46·30	46·08	46·15	45·91	46·10	45·17	45·87	8 12 ,,
17						46·80	46·53	46·68	46·62	47·04	45·81	46·39	9 12 ,,
18	11·75	10·93	11·91	47·27	47·66	47·03	46·96	47·19	47·09	47·76	46·12	46·93	10 12 ,,
19						47·11	47·07	47·37	47·54	48·13	46·47	47·37	11 12 ,,
20	12 49	11·43	11·95	47·34	47·85	47·07	47·08	47·44	47·48	48·02	46·72	47 48	0 12 P. M.
21						46·98	46·98	47·24	47·45	47·70	46·39	47·34	1 12 ,,
22	11·38	10·91	11·56	46·83	47·41	46·73	46·67	46·98	47·07	47·30	46·02	47·00	2 12 ,,
23						46·32	46·18	46·50	46·75	46·75	45·58	46·72	3 12 ,,

Abnormal days have been thrown out in forming this Table.

The Values of Absolute Horizontal Intensity obtained from the Uncorrected Scale Readings of both the Large and Small Horizontal Force Magnetometers were calculated by the following formula:—

LARGE HORIZONTAL FORCE MAGNETOMETER.

$$X \text{ or } \textit{Horizontal Intensity} = 7{\cdot}953 + 0{\cdot}0075 \{ f - 0{\cdot}0027 N + 0{\cdot}32 (t^\circ - 80^\circ) - 20{\cdot}00 \}$$

SMALL HORIZONTAL FORCE MAGNETOMETER.

$$\textit{Horizontal Intensity} = 7{\cdot}952 + 0{\cdot}0078 \{ f - 0{\cdot}0683 N + 0{\cdot}18 (t^\circ - 80^\circ) + 0{\cdot}18 W^\circ - 12{\cdot}00 \} \textit{ before 7th September.}$$

$$\textit{Horizontal Intensity} = 7{\cdot}952 + 0{\cdot}0078 \{ f - 0{\cdot}0800 N + 0{\cdot}18 (t^\circ - 80^\circ) + 0{\cdot}18 W^\circ - 47{\cdot}00 \} \textit{ after 7th September.}$$

Where X denotes the Horizontal Intensity in English Units.

„ t° „ the temperature of attached Thermometer.

„ N „ the number of days from the beginning of the year.

„ W° „ the Depression of Wet Bulb Thermometer.

„ f „ the uncorrected Scale Readings of Horizontal Force Magnetometer.

The *Uncorrected* Scale Readings *(f)* are given in Tables XVI, XVIII, XXII, and XXIV, and these, after being corrected for t°, N, and W°, according to the numbers given in the above Formula, are the Corrected Scale Readings given in Tables XX, XXI, XXVI, and XXVII, and by their means the Values of Absolute Horizontal Intensity were obtained; these are given in the following Tables:—

TABLE XXVIII.—*Mean Value of Absolute Horizontal Intensity (in English Units) as obtained by means of the Corrected Readings of Large Horizontal Force Magnetometer, for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.
1	7·945	7·930	7·931	7·946		7·943	7·942	7·949	7·948	7·944	7·936	*7·946
2		7·926	7·936	7·945	7·947	7·943	7·943	7·947	7·951		7·941	*7·941
3	7·943	7·932	7·941		7·948	7·943		7·948	7·947	7·947	7·942	7·943
4	7·942	7·938	7·940	7·941	7·948	7·947	7·947	*7·942		7·948	7·939	
5	7·942	7·942	7·942	7·944	7·950		7·948	*7·938	7·945	7·945	7·941	7·946
6	7·940			7·947	7·949	7·951	7·948	7·942	7·946	7·948		7·948
7	7·941	7·934	7·940	*7·938	*7·944	7·946	7·948		7·946	*7·951	7·943	7·949
8	7·943	7·934	7·939	*7·935	*7·932	7·944	7·948	7·943	7·943	7·949	7·940	7·948
9		7·936	7·938	7·941		7·948	*7·940	7·944	7·940		9·940	7·943
10	7·941	7·940	7·936		7·947	7·944		7·946	7·948	7·948	7·936	7·941
11	7·942	7·940	7·939	7·947	7·948	7·943	7·942	7·944		7·951	7·938	
12	7·940	7·938	7·942	7·949	7·948		7·942	7·946	*7·946	*7·951	7·944	7·941
13	7·940			7·945	7·949	7·941	7·943	7·951	*7·937	*7·937		7·945
14	7·942	7·937	7·943	7·941	7·950	7·942	7·943	7·944	7·944	7·944	7·943	7·945
15	7·943	7·939	7·946	7·943	*7·939	7·946	7·944		7·947	7·944	7·945	7·945
16		7·940	7·946	7·944	*7·933	7·946	7·946	7·949	7·949		7·940	*7·945
17	7·943	7·941	7·948			7·946		*7·949	7·945	7·948	7·945	*7·927
18	7·944	7·940	*7·943	7·949	7·943	7·948	7·944	7·948		7·946	7·944	
19	7·947	7·938	*7·926	*7·945	7·944		7·947	7·948	7·948	7·946	7·948	*7·913
20	7·943			*7·930	7·944	7·950	7·947	7·949	7·946	7·948		*7·901
21	7·942	*7·942	7·934	*7·931	7·947	7·950	7·948		7·946	7·950	7·943	*7·927
22	7·943	*7·932	7·940	7·940		7·945	7·948	7·936	7·946	*7·948	*7·935	7·935
23		7·935	7·940	7·943	7·951	7·944	7·947	7·940	*7·943	*7·910	7·931	7·938
24	7·947	*7·832	7·939		7·951	7·947		7·941	*7·903		7·936	
25	7·945	*7·933	7·939	7·947	7·950	9·948	7·943	7·940		*7·930	*7·928	
26	7·941	7·935	7·941	7·948	7·949		7·947	7·943	*7·932	7·941	7·933	7·942
27	7·939			7·946	*7·948	7·945	7·945	7·945	*7·920	7·943		7·943
28	7·938	7·940	7·946	7·944	*7·945	7·948	7·943		7·935	7·945	7·937	7·946
29	7·932		7·446	*7·943		7·942	7·944	7·948	7·935	7·947	7·940	7·943
30			7·943	*7·946	7·948	7·948	7·947	7·948	7·939		7·945	7·942
31	7·925		7·945		7·949			7·949		7·948		7·945

* Abnormal or Disturbance days.

TABLE XXIX.—*Mean Value of Absolute Horizontal Intensity (in English Units) by Small Horizontal Force Magnetometer, for each day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.
1	7·942	7·926	7·930	7·943		7·941	7·939	7·949	7·950	7·945	*7·930	*7·942
2		7·922	7·936	7·945	7·948	7·941	7·942	7·946	7·953		7·938	*7·939
3	7·937	7·924	7·942		7·946	7·942		7·947	7·947	7·950	7·938	7·940
4	7·939	7·932	7·939	7·935.	7·948	7·945	7·946	*7·941		7·949	7·935	
5	7·944	7·935	7·942	7·938	7·950		7·946	*7·938	7·947	7·948	7·938	7·945
6	7·943				7·950	7·950	7·947	7·942	7·948	7·950		7·946
7	7·945	7·930	7·938	*7·933	*7·945	7·944	7·943		7·947	*7·954	7·938	7·946
8	7·948	7·933	7·939	*7·936	*7·934	7·942	7·944	7·942	7·941	7·950	7·937	7·938
9		7·938	7·938	7·942		7·946	*7·939	7·943	7·940		7·936	7·938
10	7·945	7·935	7·937		7·947	7·942		7·945	7·945	7·950	7·938	7·935
11	7·943	7·937	7·938	7·948	7·949	7·942	7·939	7·944		7·952	7·937	
12	7·940	7·938	7·942	7·950	7·947		7·941	7·944	*7·946	*7·947	7·939	7·939
13	7·940			7·947	7·948	7·939	7·941	7·949	*7·937	*7·932		7·942
14	7·944	7·938	7·946	7·943	7·948	7·941	7·944	7·945	7·946	7·948	7·938	7·943
15	7·946	7·940	7·948	7·943	*7·938	7·946	7·943		7·949	7·942	7·941	7·943
16		7·938	7·946	7·949	*7·930	7·943	7·946	7·947	7·950		7·938	*7·944
17	7·946	7·938	7·946			7·945		*7·949	7·947	7·943	7·940	*7·927
18	7·947	7·936	*7·942	7·953	7·940	7·948	7·946	7·950		7·941	7·938	
19	7·950	7·935	*7·924	*7·946	7·943		7·946	7·949	7·947	7·946	7·936	*7·904
20	7·946			*7·929	7·943	7·949	7·946	7·950	7·945	7·946		*7·898
21	7·944	*7·940	7·933	*7·933	7·946	7·948	7·947		7·944	7·950	7·938	*7·924
22	7·946	*7·933	7·938	7·943		7·942	7·947	7·934	7·946	*7·947	*7·926	7·934
23		7·933	7·939	7·948	7·949	7·942	7·944	7·940	*7·942	*7·902	7·928	7·939
24	7·947	*7·931	7·938		7·950	7·944		7·939	*7·896		7·930	
25	7·950	*7·930	7·939	7·950	7·950	7·946	*7·937	7·933		*7·925	*7·922	
26	7·946	7·933	7·939	7·950	7·946		7·941	7·943	*7·929	7·939	7·930	7·946
27	7·942			7·948	*7·946	7·943	7·944	7·945	*7·917	7·941		7·949
28	7·938	7·940	7·943	7·947	*7·943	7·946	7·943		7·934	7·942	7·935	7·953
29	7·931		7·942	*7·946		7·940	7·943	7·948	7·938	7·945	7·938	7·948
30			7·940	*7·942	7·946	7·939	7·946	7·948	7·940		7·941	7·947
31	7·920		7·943		7·948			7·950		7·945		7·951

* Abnormal or Disturbance days.

TABLE XXX.—*Shewing for each Month the Mean Value of Absolute Horizontal Intensity (in English Units), and its Periodic Changes from the Mean of the Year.*

(By Large Horizontal Force Magnetometer.)

1847. MONTHS.	Mean Value of Absolute Horizontal Intensity.	Difference from the Mean of the Year.	For Seasons.	
	E. Units.			
January	7·941	−·002	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter...	7·941
February	·936	−·007		
March	·941	−·002	Mean of { Apr. May, June, July, Aug. Sept. } or Summer..	7·936
April	·945	·002		
May	·947	·004	Mean of the Year..	7·943
June	·946	·003		
July	·945	·002		
August	·943	·002	Greatest Mean in May...	7·947
September	·944	·001	Least Mean in February.	7·936
October	·946	·003	Difference...	·011
November	·940	−·003		
December	·943	·000		

TABLE XXXI.—*Shewing for each Month the Mean Value of Absolute Horizontal Intensity (in English Units), and its Periodic Changes from the Mean of the year.*

(By Small Horizontal Force Magnetometer.)

1847. MONTHS.	Mean Horizontal Intensity.	Difference from the Mean of the Year.	For Seasons.	
	E. Units.			
January	7·943	·001	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter..	7·940
February	·934	-·008		
March	·941	-·001	Mean of { Apr. May, June, July, Aug. Sept. } or Summer..	7·945
April	·944	·002		
May	·947	·005	Mean of the Year.....	7·942
June	·945	·003		
July	·944	·002		
August	·945	·003	Greatest Mean in May.....	7·947
September	·945	·003	Least ,, February....	7·934
October	·946	·004	Difference.....	·013
November	·936	-·006		
December	·943	·001		

From Tables XXX. and XXXI. it will be manifest that the Horizontal Force of the Earth is greater in Summer than in Winter.

TABLE XXXII.—*Mean Value of Absolute Horizontal Intensity (in English Units) as obtained by Large Horizontal Force Magnetometer, in each Month, for each hour of Göttingen Mean Time.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	H. M.
Noon.	7·947	7·940	7·943	7·947	7·949	7·948	7·945	7·945	7·948	7·950	7·943	7·948	4 12 P. M
1						7·943	7·943	7·943	7·945	7·948	7·940	7·944	5 12 ,,
2	7·941	7·935	7·939	7·942	7·944	7·943	7·942	7·942	7·943	7·945	7·939	7·943	6 12 ,,
3						7·943	7·941	7·941	7·941	7·943	7·937	7·941	7 12 ,,
4	7·938	7·932	7·937	7·941	7·943	7·942	7·940	7·940	7·940	7·941	7·935	7·940	8 12 ,,
5						7·942	7·940	7·940	7·940	7·941	7·935	7·938	9 12 ,,
6	7·937	7·932	7·937	7·941	7·943	7·943	7·941	7·940	7·940	7·941	7·935	7·936	10 12 ,,
7						7·943	7·941	7·940	7·940	7·940	7·935	7·936	11 12 ,,
8	7·936	7·932	7·936	7·941	7·943	7·943	7·940	7·941	7·940	7·940	7·936	7·937	0 12 A. M.
9						7·943	7·940	7·940	7·940	7·940	7·935	7·935	1 12 ,,
10	7·936	7·932	7·936	7·940	7·943	7·943	7·941	7·940	7·940	7·940	7·935	7·936	2 12 ,,
11						7·942	7·941	7·940	7·940	7·940	7·935	7·936	3 12 ,,
12	7·935	7·931	7·936	7·939	7·943	7·942	7·941	7·940	7·940	7·940	7·935	7·936	4 12 ,,
13						7·942	7·941	7·940	7·940	7·940	7·935	7·938	5 12 ,,
14	7·935	7·930	7·935	7·939	7·943	7·943	7·942	7·941	7·940	7·941	7·934	7·938	6 12 ,,
15						7·944	7·943	7·943	7·940	7·941	7·935	7·939	7 12 ,,
16	7·940	7·935	7·940	7·946	7·950	7·948	7·947	7·946	7·943	7·947	7·941	7·943	8 12 ,,
17						7·951	7·951	7·951	7·947	7·953	7·947	7·949	9 12 ,,
18	7·948	7·944	7·951	7·955	7·957	7·953	7·953	7·952	7·952	7·958	7·951	7·953	10 12 ,,
19						7·954	7·954	7·955	7·954	7·960	7·952	7·954	11 12 ,,
20	7·952	7·949	7·952	7·953	7·956	7·953	7·953	7·956	7·953	7·963	7·953	7·955	0 12 P. M.
21						7·953	7·953	7·955	7·953	7·957	7·952	7·954	1 12 ,,
22	7·950	7·945	7·949	7·951	7·953	7·951	7·951	7·953	7·951	7·954	7·949	7·953	2 12 ,,
23						7·948	7·948	7·950	7·949	7·952	7·947	7·951	3 12 ,,

Abnormal days have been thrown out in forming this Table.

TABLE XXXIII.—*Mean Value of Absolute Horizontal Intensity, by Small Horizontal Force Magnetometer, in each Month, for each hour of Göttingen Mean Time.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	H. M.
Noon.	7·947	7·938	7·942	7·948	7·950	7·945	7·943	7·945	7·949	7·949	7·938	7·950	4 12 P. M.
1						7·942	7·942	7·943	7·947	7·949	7·935	7·948	5 12 ,,
2	7·942	7·933	7·939	7·943	7·945	7·942	7·941	7·942	7·944	7·944	7·933	7·942	6 12 ,,
3						7·941	7·940	7·941	7·943	7·942	7·933	7·940	7 12 ,,
4	7·940	7·932	7·938	7·941	7·943	7·941	7·940	7·940	7·942	7·941	7·932	7·939	8 12 ,,
5						7·941	7·939	7·940	7·942	7·941	7·931	7·938	9 12 ,,
6	7·938	7·930	7·935	7·940	7·942	7·941	7·940	7·941	7·942	7·940	7·930	7·936	10 12 ,,
7						7·941	7·940	7·941	7·942	7·940	7·930	7·936	11 12 ,,
8	7·938	7·929	7·935	8·940	7·942	7·941	7·940	7·941	7·941	7·939	7·930	7·936	0 12 A. M.
9						7·941	7·940	7·941	7·942	7·940	7·930	7·936	1 12 ,,
10	7·938	7·928	7·935	7·938	7·942	7·941	7·940	7·941	7·941	7·939	7·930	7·936	2 12 ,,
11						7·941	7·940	7·941	7·941	7·939	7·930	7·936	3 12 ,,
12	7·937	7·928	7·935	7·938	7·942	7·941	7·940	7·941	7·941	7·940	7·930	7·936	4 12 ,,
13						7·941	7·940	7·941	7·940	7·939	7·930	7·936	5 12 ,,
14	7·937	7·928	7·934	7·938	7·942	7·942	7·940	7·941	7·939	7 938	7·930	7·936	6 12 ,,
15						7·944	7·942	7·942	7·939	7·940	7·932	7·938	7 12 ,,
16	7·941	7·934	7·940	7·946	7·950	7·946	7·945	7·945	7·943	7·945	7·938	7·943	8 12 ,,
17						7·950	7·948	7·950	7·949	7·952	7·942	7·947	9 12 ,,
18	7·950	7·943	7·951	7·954	7·958	7·952	7 952	7·954	7·953	7·958	7·945	7·951	10 12 ,,
19						7·953	7·953	7·955	7·956	7·961	7·948	7·955	11 12 ,,
20	7·956	7·947	7·952	7·954	7·958	7·953	7·953	7·955	7·955	7·960	7·950	7·956	0 12 P. M.
21						7·952	7·952	7·954	7·956	7·958	7·947	7·954	1 12 ,,
22	7·951	7·943	7·949	7·950	7·955	7·950	7·950	7·952	7·953	7·954	7·944	7·952	2 12 ,,
23						7·946	7·946	7·948	7·950	7·950	7·941	7·950	3 12 ,,

Abnormal days have been thrown out in forming this Table.

TABLE XXXIV.—*Mean Diurnal changes of Absolute Horizontal Intensity (in English Units) by Large Horizontal Force Magnetometer, for each Month; the Monthly Mean being taken as the Standard.*

(As obtained by Subtracting Table XXX. from Table XXXII.)

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	0·006	0·004	0·002	0·002	0·002	0·002	0·000	0·000	0·004	0·004	0·003	0·005	4 12 P. M.
1						-0·003	-0·002	-0·002	0·001	0·002	0·000	0·001	5 12 ,,
2	0·000	-0·001	-0·002	-0·003	-0·003	-0·003	-0·003	-0·003	-0·001	0·001	-0·001	0·000	6 12 ,,
3						-0·003	-0·004	-0·004	-0·003	-0·003	-0·003	-0·002	7 12 ,,
4	-0·003	-0·004	-0·004	-0·004	-0·004	-0·004	-0·005	-0·005	-0·004	-0·005	-0·005	-0·003	8 12 ,,
5						-0·004	-0·005	-0·005	-0·004	-0·005	-0·005	-0·006	9 12 ,,
6	-0·004	-0·004	-0·004	-0·004	-0·004	-0·003	-0·004	-0·005	-0·004	-0·005	-0·005	-0·007	10 12 ,,
7						-0·003	-0·004	-0·005	-0·004	-0·006	-0·005	-0·007	11 12 ,,
8	-0·005	-0·004	-0·005	-0·004	-0·004	-0·003	-0·005	-0·004	-0·004	-0·006	-0·004	-0·006	0 12 A. M.
9						-0·003	-0·005	-0·005	-0·004	-0·006	-0·005	-0·008	1 12 ,,
10	-0·005	-0·004	-0·005	-0·005	-0·004	-0·003	-0·004	-0·005	-0·004	-0·006	-0·005	-0·007	2 12 ,,
11						-0·004	-0·004	-0·005	-0·004	-0·006	-0·005	-0·007	3 12 ,,
12	-0·006	-0·005	-0·005	-0·006	-0·004	-0·004	-0·004	-0·005	-0 004	0·005	-0·005	-0·007	4 12 ,,
13						-0·004	-0·004	-0·005	-0·004	-0·005	-0·005	-0·005	5 12 ,,
14	-0·008	-0·006	-0·006	-0·009	-0·004	-0·003	-0·003	-0·004	-0·004	-0 005	-0·006	-0·005	6 12 ,,
15						-0·002	-0·002	-0·002	-0·004	-0·005	0·005	-0·004	7 12 ,,
16	-0·001	-0·001	-0·001	0·001	0·003	0·002	0·002	0·001	-0·001	0·001	0·001	0·000	8 12 ,,
17						0·005	0·006	0·006	0·003	0·007	0·007	0·006	9 12 ,,
18	0·007	0·008	0·010	0·010	0·010	0·007	0·008	0·007	0·008	0·012	0·011	0·010	10 12 ,,
19						0·008	0·009	0·010	0·010	0·014	00·12	0·011	11 12 ,,
20	0 011	0·013	0·011	0·008	0·009	0·007	0·008	0·011	0·009	0·012	0·013	0 012	0 12 P. M.
21						0·007	0·008	0·010	0·009	0·011	00·12	0·011	1 12 ,,
22	0·009	0·009	0·008	0·006	0·006	0·005	0·006	0·008	0·007	0·008	0·009	0·010	2 12 ,,
23						0·002	0·003	0·005	0·005	0·006	0·007	0·008	3 12 ,,

TABLE XXXV.—*Mean Diurnal Changes of Absolute Horizontal Intensity (in English Units) by Small Horizontal Force Magnetometer for each Month: the Monthly Mean being taken as the Standard.*

(Obtained by Subtracting Table XXXI. from Table XXXIII.)

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	Scale.	H. M.
Noon.	0·004	0·004	0·001	0·004	0·003	0·000	−0·001	0·000	0·004	0·003	0·002	0·007	4 12 P. M.
1						−0·003	−0·002	−0·002	0·002	0·003	−0·001	0·000	5 12 ,,
2	−0·001	−0·001	−0·002	−0·001	−0·002	−0·003	−0·003	−0·003	−0·001	−0·002	−0·003	−0·001	6 12 ,,
3						−0·004	−0·004	−0·004	−0·002	−0·004	−0·003	−0·003	7 12 ,,
4	−0·003	−0·002	−0·003	−0·003	−0·004	−0·004	−0·004	−0·005	−0·003	−0·005	−0·004	−0·004	8 12 ,,
5						−0·004	−0·005	−0·005	−0·003	−0·005	−0·005	−0·005	9 12 ,,
6	−0·005	−0·004	−0·006	−0·004	−0·005	−0·004	−0·004	−0·004	−0·003	−0·006	−0·006	−0·007	10 12 ,,
7						−0·004	−0·004	−0·004	−0·003	−0·006	−0·006	−0·007	11 12 ,,
8	−0·005	−0·005	−0·006	−0·004	−0·005	−0·004	−0·004	−0·004	−0·004	−0·007	−0·006	−0·007	0 12 A. M.
9						−0·004	−0·004	−0·004	−0·003	−0·006	−0·006	−0·007	1 12 ,,
10	−0·005	−0·006	−0·006	−0·006	−0·005	−0·004	−0·004	−0·004	−0·004	−0·007	−0·006	−0·007	2 12 ,,
11						−0·004	−0·004	−0·004	−0·004	−0·007	−0·006	−0·007	3 12 ,,
12	−0·006	−0·006	−0·006	−0·006	−0·005	−0·004	−0·004	−0·004	−0·004	−0·006	−0·006	−0·007	4 12 ,,
13						−0·004	−0·004	−0·004	−0·005	−0·007	−0·006	−0·007	5 12 ,,
14	−0·006	−0·006	−0·007	−0·006	−0·005	−0·003	−0·004	−0·004	−0·006	−0·008	−0·006	−0·007	6 12 ,,
15						−0·001	−0·002	−0·003	−0·006	−0·006	−0·004	−0·005	7 12 ,,
16	−0·002	0·000	−0·001	0·002	0·003	0·001	0·001	0·000	−0·002	−0·001	0·002	0·000	8 12 ,,
17						0·005	0·004	0·005	0·004	0·005	0·003	0·004	9 12 ,,
18	0·007	0·009	0·010	0·010	0·011	0·007	0·009	0·009	0·008	0·012	0·009	0·006	10 12 ,,
19						0·008	0·009	0·010	0·011	0·015	0·012	0·012	11 12 ,,
20	0·013	0·013	0·011	0·010	0·011	0·008	0·009	0·010	0·011	0·014	0·014	0·013	0 12 P. M.
21						0·007	0·008	0·009	0·011	0·012	0·011	0·011	1 12 ,,
22	0·008	0·009	0·008	0·006	0·008	0·005	0·006	0·007	0·008	0·008	0·008	0·009	2 12 ,,
23						0·001	0·002	0·003	0·004	0·004	0·005	0·007	3 12 ,,

TABLE XXXVI.—*Shewing for the Year* 1847 *the Mean Absolute Horizontal Intensity (in English Units) for each Hour of Göttingen and Bombay Mean Time, also its Diurnal Changes from the Mean.*

(By Large Horizontal Force Magnetometer.)

Göttingen Mean Time.	Bombay Civil Time.	Mean Absolute Horizontal Intensity.	Difference from the Mean of the whole.
	H. M.	E. Units.	
Noon.	4 12 P. M	7·946	0·003
1	5 12 ,,	7·943	0·000
2	6 12 ,,	7·941	−0·002
3	7 12 ,,	7·940	−0·003
4	8 12 ,,	7·939	−0·004
5	9 12 ,,	7·939	−0·004
6	10 12 ,,	7·939	−0·004
7	11 12 ,,	7·939	−0·004
8	0 12 A. M.	7·939	−0·004
9	1 12 ,,	7·939	−0·004
10	2 12 ,,	7·939	−0·004
11	3 12 ,,	7·938	−0·005
12	4 12 ,,	7·938	−0·005
13	5 12 ,,	7·938	−0·005
14	6 12 ,,	7·938	−0·005
15	7 12 ,,	7·940	−0·003
16	8 12 ,,	7·944	0·001
17	9 12 ,,	7·949	0·006
18	10 12 ,,	7·952	0·009
19	11 12 ,,	7·954	0·011
20	0 12 P. M	7·954	0·011
21	1 12 ,,	7·953	0·010
22	2 12 ,,	7·951	0·008
23	3 12 ,,	7·948	0·005

FOR DAY AND NIGHT.

G. M. T.

Mean of { 2, 3, 4, 5, 6, 7 / 8, 9, 10, 11, 12, 13 } or Night ..... 7·939

Mean of { 14, 15, 16, 17, 18, 19 / 20, 21, 22, 23, 0, 1 } or Day ..... 7·948

Mean..... 7·943

TIME OF MEAN MAXIMUM AND MINIMUM.

	G. M. T. H. M.		B. C. T. H. M.
Minimum about.....	13·0	or	5 A. M.
Maximum ,, ...	19·0	or	11 ,,

TABLE XXXVII.—*Shewing for the Year* 1847 *the Mean Value of Absolute Horizontal Intensity for each Hour of Göttingen and Bombay Mean Time: also its Diurnal Changes from the Mean.*

(By Small Horizontal Force Magnetometer.)

Göttingen Mean Time.	Bombay Civil Time.	Mean Horizontal Intensity.	Difference from the Mean of the Whole.	For Day and Night.
	H. M.	R. Units.		G. M. T.
Noon.	4 12 P. M.	7·945	0·003	
1	5 12 „	7·943	0·001	Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night... 7·938
2	6 12 „	7·941	−0·001	
3	7 12 „	7·940	−0·002	Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day. 7·947
4	8 12 „	7·939	−0·003	
5	9 12 „	7·939	−0·004	Mean..... ... 7·942
6	10 12 „	7·938	−0·004	
7	11 12 „	7·938	−0·004	
8	0 12 A. M.	7·938	−0·004	
9	1 12 „	7·938	−0·004	Time of Mean Maximum and Minimum.
10	2 12 „	7·938	−0·004	
11	3 12 „	7·937	−0·005	G. M. T. H. M. / B. C. T. H.
12	4 12 „	7·937	−0·005	
13	5 12 „	7·937	−0·005	Minimum about..... 13·0 or 5 A. M.
14	6 12 „	7·937	−0·005	Mininum „ ..... 19·0 or 11 A. M.
15	7 12 „	7·939	−0·003	
16	8 12 „	7·943	0·001	
17	9 12 „	7·948	0·006	
18	10 12 „	7·952	0·010	
19	11 12 „	7·954	0·012	
20	0 12 P. M.	7·954	0·012	
21	1 12 „	7·953	0·011	
22	2 12 „	7·950	0·008	
23	3 12 „	7·947	0·005	

From the Tables XXXVI. and XXXVII. it will be seen that the Horizontal Force of the Earth is greater in the day than in the night.

That the Maximum Force happens nearly at the time the Sun is on the Meridian.

That the changes of Force during the day are considerable, but during the night the Force remains remarkably uniform.

TABLE XXXVIII.—*Shewing for the Year* 1847 *the Hours of Göttingen Mean Solar Time at which the Mean Horizontal Intensity in each Month was at its Diurnal Maximum and Minimum.*

(As shewn by the Intensity from Large Horizontal Force Magnetometer.)

1847. Months.	The Mean Hourly Value of Absolute Horizontal Intensity.		Mean Diurnal Range.	The time at which the Mean Hourly Horizontal Intensity was	
	Greatest.	Least.		Greatest.	Least.
				Hours.	Hours.
January..	7·952	7·935	0·017	20	14
February.... ..	7·940	7·930	0·019	20	14
March	7·952	7·935	0·017	20	14
April.....	7·955	7·939	0·016	18	12
May....	7·957	7·943	0·014	18	12
June....	7·954	7·942	0·012	19	18
July.....	7·954	7·940	0·014	19	4
August....	7·956	7·940	0·016	20	5
September.. ..	7·954	7·940	0·014	19	12
October.... ..	7·960	7·940	0·020	19	14
November.. ..	7·953	7·934	0·019	20	10
December.. ..	7·955	7·935	0·020	20	9

TABLE XXXIX.—*Shewing for the Year* 1847 *the Hours of Göttingen Mean Solar Time at which the Mean Horizontal Intensity, as shewn by the Small Horizontal Force Magnetometer, in each Month, was at its Diurnal Maximum and Minimum.*

1847. MONTHS.	The Mean Hourly Horizontal Intensity.		Mean Diurnal Range.	The time at which the Mean Hourly Horizontal Intensity was	
	Greatest.	Least.		Greatest.	Least.
	E. Units.	E. Units.		Hours.	Hours.
January	7·956	7·937	0·019	20	14
February	7·947	7·928	0·019	20	14
March	7·952	7·934	0·018	20	14
April	7·954	7·938	0·016	18	12
May	7·958	7·942	0·016	18	12
June	7·953	7·941	0·012	19	13
July	7·953	7·939	0·014	19	5
August	7·955	7·940	0·015	20	5
September	7·956	7·939	0·017	20	13
October	7·961	7·938	0·023	19	14
November	7·950	7·930	0·020	20	14
December	7·956	7·936	0·020	20	9

The hours of Maxima are very nearly constant and the same in the Intensity calculated from both the Magnetometers, but the time of Minima was neither constant in the same Instrument, nor agreed in any way with the other Table. This apparent anomaly proceeds from two causes:—from about 2 hours until 14 hours (Göttingen Mean Time), the changes in the Horizontal Intensity are so very small, that it remains apparently the same for many hours, and within this period it is very difficult to decide which of the hours is the time of true Minimum: besides, the Small Horizontal Force Magnetometer is only a differential Instrument.

EFFECT OF THE ATMOSPHERIC AIR ON THE MAGNETIC INTENSITY OF THE EARTH.

By comparing the calculated Horizontal Intensity, with the Temperature of Air, outside the Observatory, it was found that a similarity existed between them, such that:—

An Increase in the Temperature of the External Air was accompanied with an Increase of the Earth's Magnetic Intensity.

And

A Decrease in the Temperature of the External Air was accompanied with a Decrease in the Earth's Magnetic Intensity.

This *law* was found to hold good for the Magnetic Intensity at all times, viz. Hourly, Daily, and Monthly. (See Introduction.)

To cause the above observed effect, it was supposed that the Air surrounding the Magnetic Observatory was Magnetic, and that its Moment altered with the changes of its *temperature*: consequently, this *Air*, affecting the Needle of the Horizontal Force Magnetometer, in addition to the Magnetic Force of the Earth, caused the observed phenomena. The Magnetism in *Air* may have been induced by the Earth; but whatever may be the cause, the effect of the Air was certainly felt, and it was necessary that it should be removed (considering it as a local cause) to obtain the true changes in the EARTH'S MAGNETIC FORCE.

This was accordingly done, and the Values given in the following Tables, shew the Horizontal Magnetic Intensity of the Earth reduced to a common Temperature (80°0 of the External Air), by correcting the Intensity in the preceding Tables by the Formulæ:—

$$\text{Correction} = -0{\cdot}0015\,(t^{\circ} - 80^{\circ}0)$$

in which t° denotes the Temperature of External and Free Air.

It is a curious fact, that the Values thus corrected should produce curves so very like the Declination Curves.

TABLE XL.—*Mean Value of Absolute Horizontal Intensity, cleared of the effects of the External and Free Air, for each Day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.
1	7·951	7·948	*7·934	7·946		7·944	7·945	7·948	7·949	7·943	*7·936	*7·950
2		7·953	7·939	7·946	7·942	7·944	7·946	7·947	7·951		7·941	*7·945
3	7·947	7·948	7·942		7·944	7·940		7·949	7·949	7·945	7·942	7·947
4	7·946	7·947	7·943	7·941	7·945	7·943	7·945	*7·942		7·947	7·949	
5	7·946	7·949	7·945	7·943	7·947		7·946	*7·938	7·948	7·944	7·950	7·943
6	7·946			7·943	7·945	7·946	7·948	7·942	7·948	7·947		7·951
7	7·947	7·944	7·944	*7·935	*7·939	7·945	7·942		7·950	*7·950	7·953	7·951
8	7·949	7·943	7·942	*7·932	*7·927	7·944	7·943	7·943	7·952	7·947	7·947	7·950
9		7·943	7·943	7·938		7·945	*7·939	7·944	7·946		7·946	7·951
10	7·948	7·946	7·942		7·941	7·941		7·946	7·947	7·944	7·943	7·951
11	7·951	7·944	7·946	7·944	7·942	7·942	7·939	7·945		7·947	7·944	
12	7·949	7·944	7·945	7·947	7·943		7·941	7·947	*7·946	*7·947	7·948	7·952
13	7·949			7·944	7·945	7·940	7·942	7·951	*7·937	*7·934		7·952
14	7·948	7·947	7·941	7·940	7·946	7·937	7·940	7·945	7·946	7·943	7·947	7·954
15	7·947	7·949	7·941	7·940	*7·933	7·941	7·943		7·947	7·942	7·949	7·954
16		7·947	7·944	7·938	*7·927	7·945	7·945	7·948	7·949		7·944	*7·954
17	7·949	7·947	7·948			7·942		*7·949	7·945	7·945	7·950	*7·937
18	7·948	7·949	7·944	7·942	7·939	7·942	7·944	7·943		7·943	7·950	
19	7·951	7·950	*7·926	*7·946	7·938		7·946	7·948	7·948	7·943	7·948	*7·920
20	7·947			*7·927	7·938	7·944	7·944	7·948	7·947	7·947		*7·907
21	7·946	*7·948	*7·934	*7·927	7·940	7·948	7·945		7·947	7·948	7·948	*7·935
22	7·947	*7·946	7·939	7·936		7·948	7·947	7·936	7·946	*7·945	*7·950	7·943
23		7·944	7·938	7·939	7·942	7·947	7·946	7·938	*7·943	*7·907	7·987	7·945
24	7·951	*7·942	7·937		7·942	7·947		7·940	*7·903		7·942	
25	7·946	*7·943	7·938	7·941	7·943	7·945	*7·940	7·940		*7·925	*7·938	
26	7·953	7·944	7·941	7·944	7·944		7·944	7·942	*7·933	7·935	7·940	7·949
27	7·954			7·943	*7·943	7·948	7·945	7·948	*7·920	7·939		7·949
28	7·953	7·944	7·946	7·941	*7·942	7·948	7·942		7·936	7·942	7·950	7·950
29	7·944		7·946	*7·939		7·948	7·943	7·948	7·936	7·944	7·953	7·947
30			7·942	*7·936	7·943	7·944	7·946	7·949	7·941		7·951	7·946
31	*7·941		7·944		7·942			7·949		7·944		7·948

TABLE XLI.—*Shewing, for each Month, the Mean Value of Absolute Horizontal Intensity, cleared of the effects of External and Free Air, as well as its Periodic Changes from the Mean of the Year.*

1847. MONTHS.	Mean Value of Absolute Horizontal Intensity, cleared of the effects of External Air.	Difference from the Mean of the Year.	For Seasons.	
	E. Units.	E. Units.		
January	7·948	0·003	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter...	7·946
February	7·946	0·001		
March	7·943	-0·002	Mean of { Apr. May, June, July, Aug. Sept. } or Summer..	7·944
April	7·942	-0·003		
May	7·942	-0·003	Mean of the Year..	7·945
June	7·944	-0·001		
July	7·944	-0·001		
August	7·945	0·000	Greatest Mean in December.....	7·949
September	7·946	0·001	Least „ in April & May...	7·942
October	7·944	-0·001	Difference...	·007
November	7·947	0·002		
December	7·949	0·004		

We have from the above Table a well marked annual period, consisting of Maxima near the Solstices, and Minima near the Equinoxes: the Maximum is rather greater in Winter than in Summer.

TABLE XLII.—*Mean Value of Absolute Horizontal Intensity, cleared from the effects of the External and Free Air, for each Month.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	
Noon.	7·947	7·943	7·940	7 940	7·939	7·944	7·943	7·944	7·947	7·948	7·948	7·948	4 12 P. M.
1						7·941	7·943	7·943	7·945	7·943	7·948	7·947	5 12 „
2	7·946	7·943	7·939	7·939	7·939	7·942	7·942	7·943	7·944	7·942	7·943	7·948	6 12 „
3						7·942	7·941	7·942	7·943	7·941	7·943	7·947	7 12 „
4	7·946	7·942	7·939	7·940	7·940	7·941	7·940	7·942	7·943	7·940	7·942	7·947	8 12 „
5						7·941	7·940	7·942	7·943	7·941	7·944	7·946	9 12 „
6	7·949	7·944	7·942	7·942	7·941	7·943	7·941	7·942	7·943	7·941	7·945	7·948	10 12 „
7						7·943	7·942	7·942	7·943	7·940	7·946	7·949	11 12 „
8	7·951	7·947	7·942	7·941	7·941	7·943	7·941	7·943	7·943	7·941	7·948	7·950	0 12 A. M.
9						7·943	7·941	7·942	7·944	7·942	7·948	7·948	1 12 „
10	7·951	7·948	7·942	7·942	7·942	7·943	7·942	7·943	7·944	7·942	7·948	7·949	2 12 „
11						7·943	7·942	7·943	7·945	7·942	7·948	7·950	3 12 „
12	7·951	7·949	7·943	7·942	7·943	7·942	7·942	7·943	7·945	7·943	7·948	7·950	4 12 „
13						7·943	7·942	7·943	7·946	7·943	7·949	7·952	5 12 „
14	7·948	7·948	7·944	7·943	7·943	7·944	7·943	7·944	7·946	7·945	7·949	7·953	6 12 „
15						7·944	7·944	7·946	7·945	7·942	7·948	7·952	7 12 „
16	7·950	7·946	7·940	7·941	7·943	7·947	7·947	7·947	7·945	7·944	7·948	7 951	8 12 „
17						7·948	7·950	7·950	7·947	7·946	7·950	7·952	9 12 „
18	7·948	7·945	7·944	7·946	7·946	7·950	7·950	7·949	7·950	7·948	7·951	7·953	10 12 „
19						7·951	7·950	7·951	7·951	7·949	7·949	7·950	11 12 „
20	7·946	7·949	7·945	7·942	7·943	7·949	7·949	7·951	7·950	7·946	7·947	7·949	0 12 P. M.
21						7·949	7·949	7·950	7·949	7·946	7·946	7·948	1 12 „
22	7·946	7·945	7·943	7·941	7·940	7·947	7·947	7·949	7·947	7·944	7·946	7·949	2 12 „
23						7·945	7·946	7·947	7·947	7·943	7·946	7·949	3 12 „

Abnormal days have been thrown out in forming this Table.

TABLE XLIII.—*Mean Diurnal Changes of Absolute Horizontal Intensity, cleared from the effects of External and Free Air, for each Month; the Monthly Mean being taken as the Standard.*

(As obtained by Subtracting Table XLI. from Table XLII.)

Göttingen Mean Time.	MONTHS, 1847. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Bombay Civil Time.
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	H. M.
Noon.	-0·001	-0·003	-0·003	-0·002	-0·003	0·000	-0·001	-0·001	0·001	-0·001	-0·004	-0·001	4 12 P. M.
1						-0·003	-0·002	-0·002	-0·001	-0·001	-0·004	-0·002	5 12 ,,
2	-0·002	-0·003	-0·004	-0·003	-0·003	-0·002	-0·002	-0·002	-0·002	-0·002	-0·004	-0·001	6 12 ,,
3						-0·002	-0·003	-0·003	-0·003	-0·003	-0·004	-0·002	7 12 ,,
4	-0·002	0·004	-0·004	-0·002	-0·002	-0·003	-0·004	-0·003	-0·003	-0·004	-0·005	-0·002	8 12 ,,
5						-0·003	-0·004	-0·003	-0·003	-0·003	-0·003	-0·003	9 12 ,,
6	0·003	-0·002	-0·001	-0·001	-0·001	-0·001	-0·003	-0·003	-0·003	-0·002	-0·002	-0·001	10 12 ,,
7						-0·001	-0·002	-0·003	-0·003	-0·004	-0·001	0·000	11 12 ,,
8	0·003	0·001	-0·001	-0·001	-0·001	-0·001	-0·003	-0·002	-0·002	-0·003	0·001	0·001	0 12 A. M.
9						-0·001	-0·003	-0·002	-0·002	-0·002	0·001	-0·001	1 12 ,,
10	0·003	0·002	-0·001	0·000	0·000	-0·001	-0·002	-0·002	-0·002	-0·002	0·001	0·000	2 12 ,,
11						-0·001	-0·002	-0·001	-0·001	-0·002	0·001	0·001	3 12 ,,
12	0·003	0·003	0·000	0·000	0·001	-0·002	-0·002	-0·001	-0·001	-0·001	0·001	0·001	4 12 ,,
13						-0·001	-0·002	-0·000	0·000	-0·001	0·002	0·003	5 12 ,,
14	0·000	0·002	0·001	0·001	0·001	0·000	-0·001	-0·000	0·000	0·001	0·002	0·004	6 12 ,,
15						0·000	0·000	0·001	-0·001	-0·002	0·000	0·003	7 12 ,,
16	0·002	0·000	-0·003	-0·001	0·001	0·003	0·003	0·001	-0·001	0·000	0·001	0·002	8 12 ,,
17						0·004	0·006	0·001	0·001	0·002	0·003	0·003	9 12 ,,
18	0·000	-0·001	0·001	0·004	0·004	0·006	0·006	0·004	0·004	0·004	0·004	0·004	10 12 ,,
19						0·007	0·006	0·005	0·005	0·002	0·001	0·001	11 12 ,,
20	-0·003	0·003	0·002	0·000	0·001	0·005	0·005	0·004	0·004	0·002	0·000	0·000	0 12 P. M.
21						0·005	0·005	0·003	0·003	0·002	0·001	-0·001	1 12 ,,
22	-0·002	-0·001	0·000	-0·001	-0·002	0·003	0·003	0·000	0·000	0·000	0·002	0·000	2 12 ,,
23						0·002	0·002	0·001	0·001	0·001	0·001	0·000	3 12 ,,

TABLE XLIV.—*Shewing for the Year* 1847 *the Absolute Horizontal Intensity, cleared from the effects of External and Free Air, for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Horizontal Intensity.	Difference from the Mean of the whole.
	H. M.	E. Units.	
Noon.	4 12 P. M.	7·943	-0·002
1	5 12 ,,	7·942	-0·003
2	6 12 ,,	7·942	-0·003
3	7 12 ,,	7·942	-0·003
4	8 12 ,,	7·942	-0·003
5	9 12 ,,	7·943	-0·002
6	10 12 ,,	7·944	-0·001
7	11 12 ,,	7·944	-0·001
8	0 12 A. M.	7·945	0·000
9	1 12 ,,	7·945	0·000
10	2 12 ,,	7·945	0·000
11	3 12 ,,	7·945	0·000
12	4 12 ,,	7·945	0·000
13	5 12 ,,	7·946	0·001
14	6 12 ,,	7·946	0·001
15	7 12 ,,	7·945	0·000
16	8 12 ,,	7·946	0·001
17	9 12 ,,	7·947	0·002
18	10 12 ,,	7·948	0·003
19	11 12 ,,	7·947	0·002
20	0 12 P. M.	7·947	0·002
21	1 12 ,,	7·946	0·001
22	2 12 ,,	7·945	0·000
23	3 12 ,,	7·944	-0·001

FOR DAY AND NIGHT.

G. M. T.

Mean of { 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, } or Night ... 7·944

Mean of { 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1, } or Day. 7·946

Mean..... ... 7·945

TIME OF MEAN MAXIMUM AND MINIMUM.

		G. M. T. H.		B. C. T. H.
Minimum	about....	1	or	5 P. M.
Maximum	,, ...	2	or	6
Minimum	,, ...	4	or	8
Maximum	,, ...	14	or	6 A. M.
Minimum	,, ...	15	or	7
Maximum	,, ...	18	or	10

This Table shows, that when the Horizontal Force of the Earth was cleared of the effects of the External and Free Air, it indicated the presence of three Maxima and three Minima, like the Declination, a fact very remarkable, as it goes to shew that in both the elements the changes observed proceeded from one and the same cause.

TABLE XLV.—*Shewing for the Year* 1847 *the Hours of Göttingen Mean Solar Time about which the Mean Horizontal Intensity, cleared of the effects of the External and Free Air, in each Month, was at its Diurnal Maximum or Minimum.*

1847. MONTHS.	The Mean Hourly Horizontal Intensity, clear of the effects of the External and Free Air at						Mean Diurnal Range.	The time at which the different Maxima and Minima took place in 1847.					
	Minimum in the Evening	Maximum in the Evening.	2nd Minimum in the Evening.	Maximum in the Morning.	Minimum in the Morning.	Maximum at Mid-day.		Evening Minimum.	Evening Maximum.	Evening 2nd Minimum.	Morning Maximum.	Morning Minimum.	Mid-day Maximum.
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	Hours.	Hours.	Hours.	Hours.	Hours.	Hours.
January ..	7·945	7·947			7·948	7·950	0·005	20	0			14	16
February.			·942	·949	7·945	7·949	0·007			4	12	18	20
March ..			·939	·944	7·940	7·945	0·006			4	14	16	20
April			·939	·943	7·941	7·948	0·007			2	14	16	18
May.....	7·939			·943		7·946	0·007	24			14		18
June.....	7·941	7·942	·941	·943	7·942	7·951	0·010	25	3	5	11	12	19
July.....			·940			7·950	0·010			4			19
August,...			·942	·950	7·949	7·951	0·009			5	17	18	19
September.			·943	·946	7·945	7·951	0·008			5	14	16	19
October ..			·940	·945	7·942	7·949	0·009			4	14	15	19
November.			·942	·949	7·948	7·951	0·009			4	14	16	18
December.			·945	·953	7·951	7·953	0·007			5	14	16	18

This Table shews that the times of Maxima and Minima were subject to periodical changes, thus—

		In Summer.	In Winter.
Evening	Minima	is later	earlier.
Evening	Maxima	is later	earlier.
Evening	Minima	is nearly uniform.	
Morning	Maxima	is nearly uniform.	
Morning	Minima	is earlier	later.
Mid-day	Minima	is earlier	later.

Also, that the Mean Diurnal Ranges were somewhat greater in Summer than in Winter.

EXTRAORDINARY CHANGES.

Extraordinary Changes, or those Changes that took place in the Instruments, by which the Horizontal part of the Earth's Magnetic Force was measured during the continuance of a Disturbance, are discussed under a separate head, at the end of the Magnetic Results. However, to give a general sketch of the different effects of the Disturbances that took place during the year 1847, the following Table has been annexed.

From this Table it will be seen, that the effect of the Disturbance was to decrease the Scale Readings of the Horizontal Force Magnetometer in a great measure.

TABLE XLVI.—*The Greatest and the Least Extraordinary Position of Large Horizontal Force Magnetometer, in the Simple Hourly Observations, during the Year* 1847.

LOWEST SCALE READING (uncorrected).

DATE AND TIME.	(G. M. T.)	The Extreme Highest.	Average from the Calculated Results.	Above the Average.	The same in parts of whole Horizontal Force.	Highest Value of Horizontal Force, in English Units.
	H. M.					E. Units.
2 February	20·0	21·9	19·3	2·6	0·0026	7·968
1 March	18·0	17·8	19·2	−1·4	−0·0014	7·934
17 „	18·0	19·4	18·8	0·6	0·0006	7·949
12 April	18·0	19·3	18·7	0·6	0·0006	7·950
19 „	18·0	20·5	18·6	1·9	0·0019	7·961
28 „	18·0	19·1	18·6	0·5	0·0005	7·950
5 May	18·0	19·2	18·6	0·6	0·0006	7·951
14 „	18·0	19·3	18·6	0·7	0·0007	7·952
28 „	18·0	19·8	18·8	1·0	0·0010	7·955
8 September	18·0	21·1	19·4	1·7	0·0017	7·964
30 „	19·0	19·6	19·3	0·3	0·0003	7·952
7 October	19·0	22·0	19·3	2·7	0·0027	7·971
22 „	19·0	21·3	19·5	1·8	0·0018	7·963
5 November	18·0	21·4	20·2	1·2	0·0012	7·960
21 „	18·0	20·7	20·5	0·2	0·0002	7·953
16 December	19·0	21·6	20·7	0·9	0·0009	7·957
22 „	19·0	21·2	20·8	0·4	0·0004	7·953

HIGHEST SCALE READING (uncorrected).

DATE AND TIME.	G. M. T.	The Extreme Lowest.	Average from the Calculated Results.	Below the Average.	The same in parts of whole Horizontal Force.	Lowest value of Horizontal Force, in English Units.
	H. M.					E. Units.
22 February	4·0	15·7	18·0	−2·3	−0·0022	7·923
1 March	8·0	15·6	18·1	2·5	0·0025	7·925
19 „	8·0	14·6	17·5	2·9	0·0029	7·918
8 April	22·0	14·8	17·7	2·9	0·0029	7·919
20 „	2·0	13·7	17·0	3·3	0·0033	7·913
21 „	2·0	13·2	17·0	3·8	0·0038	7·909
30 „	0·0	15·6	17·1	1·5	0·0015	7·927
8 May	0·0	13·5	17·2	3·7	0·0037	7·910
15 „	6·0	15·9	17·3	1·4	0·0014	7·930
16 „	0·0	12·5	17·1	4·6	0·0046	7·902
13 September	5·0	16·3	18·4	2·1	0·0021	7·926
24 „	6·0	6·5	18·2	11·7	0·0017	7·849
27 „	3·0	12·0	18·2	6·2	0·0062	7·892
30 „	4·0	17·2	18·2	1·0	0·0010	7·934
13 October	4·0	14·0	17·5	3·5	0·0035	7·914
23 „	6·0	9·8	17·7	7·9	0·0079	7·879
25 „	6·0	14·7	17·7	3·0	0·0030	7·921
1 November	3·0	14·6	18·2	3·6	0·0036	7·913
21 „	4·0	18·5	18·9	0·4	0·0004	7·940
22 „	23·0	16·3	19·5	3·2	0·0032	7·921
17 December	7·0	15·1	19·2	4·1	0·0041	7·916
19 „	6·0	14·6	19·1	4·5	0·0045	7·912
20 „	2·0	10·6	19·4	−8 8	0·0088	7·879

MAGNETIC VERTICAL FORCE OF THE EARTH.

The Changes in this Component of the Earth's Magnetic Force were obtained by means of the Micrometer Readings of the Vertical Force or Balance Magnetometer.

This Instrument has been in operation under great many disadvantages; certain inaccuracies, arising from errors of its mechanical workmanship, cannot be eliminated. A certain sensibility given to the Magnet will not remain permanent for any length of time; the knife-edged axle becomes blunted, and by this means the sensibility of the movements of the Magnet is slowly destroyed. In the Monsoons, when at times heavy and continuous rain falls, the extreme moisture affects its axis, and the sensibility of the Magnet is immediately destroyed. Besides these effects, if the Magnet should be touched in the slightest degree, the Micrometer Readings alter, and never return to the former Readings. A curious phenomenon is, at times, observed in this Instrument: this is a slow increase of the Readings for some days, and sometimes for some months, and at other times the Readings remain nearly constant.

Having taken all these difficulties into account, it will be seen, that in deducing the results from this Instrument, much time and labour have been expended; and what has been done, and how the various reductions were made, will be seen from the following Tables.

The Temperature was supposed not to affect the Readings of this Instrument.

TABLE XLIX.—*Mean of the Micrometer Readings of the Vertical Force Magnetometer for each Day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d	t d
1	1·15·19	9·04·41	4·41·26	7·11·34		*1·18·37	1·09·69	0·17·34	2·04·80	3·19·55	2·43·20	1·47·84
2		10·22·19	5·01·68	7·00·47	9·41·91	1·47·49	0·33·33	-0·06·58	2·04·95		2·16·63	1·20·27
3	2·05·38	10·25·63	4·47·99		9·23·81	1·30·69		-0·29·83	2·23·63	4·28·05	2·27·28	0·27·51
4	2·06·47	9·42·41	5·10·97	*7·05·29	9·23·03	-0·37·39	-0·09·46	-3·41·01		3·37·43	2·44·39	
5	3·27·75	9·05·93	5·19·23	7·37·55	9·21·33		-0·16·61	-3·31·46	2·29·04	3·30·59	1·49·03	1·24·06
6	3·32·43			6·00·69	9·32·25	-0·13·37	-0·17·35	-3·21·81	2·33·31	2·39·97		1·09·82
7	3·32·26	10·06·98	4·29·68	6·26·06	9·29·07	1·22·30	-0·34·39		2·07·74	2·37·38	2·47·51	1·19·78
8	4·14·45	11·20·86	5·16·23	6·24·63	10·41·57	0·30·92	0·36·19	-2·41·90	2·22·42	3·16·36	2·46·61	0·48·91
9		*1·42·04	4·38·95	6·32·00		0·23·50	0·27·33	-3·06·32	2·05·83		3·26·24	2·05·93
10	4·03·23	2·46·75	5·15·45		11·39·57	0·27·49		-2·34·29	1·34·59	2·30·56	3·00·93	1·19·35
11	4·18·01	3·33·36	5·32·89	6·39·00	11·28·74	1·39·58	-0·29·76	-2·47·63		2·48·81	2·36·22	
12	4·13·97	4·07·15	6·06·21	7·09·81	11·09·96		-0·42·34	-3·10·35	0·40·47	3·14·76	1·31·44	2·16·32
13	4·41·63			7·14·84	10·11·34	1·01·04	-0·27·78	*-1·06·94	1·20·59	3·01·56		1·47·27
14	5·06·24	*0·28·54	5·32·24	6·06·68	9·30·74	0·39·41	-0·41·93	-1·09·52	2·03·04	3·18·38	2·19·32	2·30·82
15	6·00·22	0·41·19	5·03·75	6·36·78	11·05·97	1·43·44	-0·31·14		1·26·97	3·16·90	2·08·41	1·36·80
16		1·06·50	4·33·19		13·26·08	2·14·28	-0·37·91	-1·15·45	1·48·79		2·31·97	0·09·55
17	6·19·51	1·15·91	4·41·59			0·09·19		-1·28·76	1·36·35	3·28·40	3·12·41	2·00·77
18	7·06·50	2·18·72	6·07·31	8·38·59	9·14·51	0·20·39	-0·31·83	-0·36·27		3·49·63	2·15·02	
19	8·05·05	3·03·08	6·44·99	7·41·54	10·03·20		-0·31·96	-0·44·47	1·44·28	3·26·46	2·15·91	2·04·90
20	8·06·14			8·48·05	11·25·40	0·08·79	-0·11·29	-1·02·81	2·05·44	3·06·10		1·30·40
21	8·07·69	3·32·84	7·07·72	11·19·78	12·02·70	-0·25·57	-0·16·90		2·43·47	3·36·63	2·33·88	1·37·90
22	7·05·99	3·47·59	5·39·39	11·36·54		-0·31·43	*-0·07·83	*-0·25·63	4·09·02	3·32·78	3·11·05	1·13·32
23		4·20·12	6·13·20	11·27·96	13·14·47	-0·16·41	-0·09·33	0·27·85	4·08·38	4·19·61	3·03·44	0·42·84
24	7·32·08	4·33·71	6·16·70		13·37·40	-0·31·79		0·34·74	4·36·54		2·36·97	
25	8·03·51	5·12·39	7·00·90	10·18·95	13·36·63	-0·21·37	-0·25·27	0·39·93		4·09·89	4·20·30	
26	8·15·61	3·33·47	6·37·88	10·03·58	13·21·42		-0·29·04	1·04·21	3·33·91	3·19·36	2·38·03	1·27·48
27	8·34·02			9·29·99	14·45·31	-0·25·12	-0·42·63	1·03·31	4·23·91	3·35·77		0·42·86
28	9·14·20	4·03·33	7·46·26	9·21·86	15·09·66	-0·13·43	-0·36·26		2·43·13	2·44·74	1·00·93	0·34·20
29	9·16·31		6·01·66	9·21·86		0·27·81	0·13·00	1·43·98	3·16·73	2·45·66	1·12·38	0·02·46
30			5·42·75	9·45·99	15·17·47	0·37·49	0·16·81	2·09·21	4·15·88		0·38·51	-0·05·16
31	8·31·62		6·44·42		16·24·61			1·40·74		3·02·73		0·06·42

* Instrument cleaned and adjusted.

ADJUSTMENTS OF THE VERTICAL FORCE MAGNETOMETER.

8TH FEB. 1847—The cross wire of the North end of the Magnet rising very high, and much trouble experienced in taking the Deflections, it was considered necessary to lower it by moving the horizontal screw which is on one end of the Magnet. To effect this, the Magnet was raised from off the agate planes, on which it rests, for the purpose of moving the horizontal end screw, but accidentally the Magnet was let down again on the planes, without touching the screw; and on taking a new set of Readings they were found to have decreased from 12'07"67 to 1'38"90; why this should be it was impossible to discover, and it was therefore considered best to allow the Magnet to remain in this position.

14TH „ The Magnet was again raised from off the agate planes, and then let down on them, which caused the Readings to decrease from 4'05"00 to 0'01"90 = — 3'03"10.

4TH APRIL—The Magnet was raised from off the agate planes, and let down again, but the Readings were not in the least altered.

17TH „ Several ants (insects) were discerned to move across the South end of the Magnet, which disturbed its Readings: the box over the Magnet was taken off, and the Magnet, together with its supports, were cleared from them; and after the Magnet was let down on its supports, it was found that the Readings increased from 6'30"00 to 8'30"00.

1ST JUNE—The cross wires of the North end of the Magnet were again found to be high; and in order to decrease the Readings, the Magnet was taken off the supports, cleaned, and the horizontal screw on the South end moved, until the Readings were decreased from 17'15"2 to 0'05"5 or = 17'20"7.

1ST AUGUST—The Magnet taken out, and made more sensible.

13TH „ The Magnet taken out, and the knife-edged axle cleaned; after this adjustment the Readings were altered from 3'10"0 to 1'10"0.

23RD „ The Magnet again taken out and cleaned.

7TH SEPT.—The Magnet being very sluggish in its movements, was taken out, and the screws on each end moved to make it more sensible.

21ST „ The Magnet again found to be sluggish, was made more sensible: from this time till the end of the year it was not touched.

The following Table contains the Diurnal Changes of the Scale Readings of those periods during which the sensibility of the Instrument was supposed to be uniform; and from these, the Mean Monthly Diurnal Changes of Vertical Force were afterwards found.

TABLE L.—*Diurnal Changes of Mean Monthly Scale Readings of Vertical Force Magnetometer reduced into Minutes of Arc, the value of one turn of Micrometer being equal to 0·5·0*

1847. MONTHS.	Date.	*Hours of Göttingen Mean Solar Time.* Noon.	1·0	2·0	3·0	4·0	5·0	6·0	7·0	8·0	9·0	10·0	11·0	12·0	13·0	14·0	15·0	16·0	17·0	18·0	19·0	20·0	21·0	22·0	23·0
January	1-31	-2·395		-1·268		1·075		2·145		2·703		1·750		1·055		1·262		3·004		-4·160		-4·186		-0·974	
February	1-28	-2·345		-2·409		-0·117		1·104		1·745		2·038		1·753		2·848		2·195		-3·695		-3·560		0·447	
March	1-31	-0·519		-0·571		1·134		1·861		2·928		2·500		2·154		4·140		2·324		-5·181		-3·833		-1·949	
April	1-30	2·165		0·334		2·890		1·893		1·894		1·771		1·858		4·912		-1·333		-10·020		-6·961		0·597	
May	1-31	2·218		0·443		1·516		2·007		1·786		1·902		2·842		5·115		-0·784		-9·340		-7·166		-0·586	
June	1-30	0·461	-0·723	-0·907	-1·158	-0·415	-0·157	0·095	0·483	0·753	1·896	2·473	3·120	3·060	4·463	5·958	5·512	1·797	-2·398	-5·413	-7·151	-6·705	-3·068	-0·622	0·469
July	1-9	2·600	2·575	-0·762	0·214	0·717	0·199	1·279	1·879	1·552	2·541	2·932	3·252	4·376	7·278	7·554	4·985	-0·805	-5·384	-8·280	-10·389	-7·188	-5·743	-3·108	0·006
	11-21	1·005	-0·028	-0·771	-1·108	-0·603	0·073	0·908	1·312	1·761	1·954	2·613	2·703	2·714	3·798	5·377	3·965	0·956	-1·941	-3·713	-6·117	-6·887	-5·584	-3·041	-0·676
	22-30	-0·302	-1·157	1·352	-1·331	-1·003	-1·461	-1·431	-1·017	-0·961	-·965	-·576	0·107	1·426	2·095	4·505	4·598	1·503	0·493	-1·046	-1·857	-1·278	-0·496	-0·307	-0·824
August	1-11	0·593	1·276	0·006	-1·731	-0·523	1·514	3·063	3·527	3·447	3·447	1·958	1·450	2·010	3·173	5·750	4·379	-·056	-4·329	-7·195	-6·678	-4·915	-4·233	-1·313	-2·910
	13-22	2·314	2·220	-0·717	-0·865	-0·515	·012	·133	·518	1·188	1·188	2·232	2·725	3·610	3·612	7·615	6·553	1·402	-2·657	-4·266	-7·748	-8·049	-7·579	-3·800	-·457
	23-31	0·631	0·075	0·006	-0·449	-·111	·420	-·033	-·297	·352	·352	1·736	1·860	2·584	3·485	6·239	5·815	2·075	-2·038	-4·186	-5·136	-4·986	-4·688	-1·192	-·510
September	1-6	-0·584	-0·663	-0·983	-1·278	-1·280	-1·217	-·487	·010	·301	·472	·584	1·075	1·551	2·398	3·874	3·427	2·365	-·600	-2·260	-2·836	-1·942	-1·284	-·384	·284
	7-20	0·885	-0·849	-0·826	-0·383	-·106	-·113	·903	1·532	1·167	2·263	3·485	4·119	4·615	4·188	9·189	8·731	3·376	-4·107	-9·095	-11·405	-10·411	-6·332	-1·420	1·608
	21-30	3·143	-1·559	-1·088	1·025	·992	4·353	2·284	3·205	3·022	3·847	2·747	1·949	2·072	6·612	12·037	8·477	-0·045	-10·428	-14·881	-17·307	-13·736	-2·952	3·693	5·111
October	1-31	-1·860	·654	0·421	1·819	·765	·341	2·069	1·886	2·690	3·874	3·549	2·943	1·921	4·181	9·227	7·553	·768	-7·561	-13·205	-13·943	-7·143	-·666	2·017	·445
November	1-30	-0·036	-2·661	0·036	1·907	·028	·404	1·143	1·468	·699	·526	2·126	2·128	2·380	2·449	3·674	1·563	·053	-1·505	-5·655	-6·126	-2·365	-·507	-1·085	-1·132
December	1-31	-1·981	-2·646	0·807	2·285	2·167	·986	·587	2·079	2·403	2·568	1·599	·883	2·767	1·864	0·988	-1·125	1·281	·463	-1·702	-4·827	-4·102	-2·104	-2·562	-2·493

During this year the Vertical Force Magnetometer was subject to various irregularities in the Co-efficient of Reduction: the following Values were taken in reducing the Observations:—

January		0·00060
February		0·00060
March		0·00057
April		0·00056
May		0·00057
June		0·00059
July	2nd to 9th	0·00055
	11th „ 21st	0·00087
	23rd „ 28th	0·00150
August	1st „ 12th	0·00050
	13th „ 22nd	0·00064
	24th „ 31st	0·00106
September	1st „ 6th	0·00110
	7th „ 20th	0·00063
	21st „ 30th	0·00036
October		0·00038
November		0·00041
December		0·00043

With the above *Co-efficients*, the Numbers in Tables XLIX. and L. were multiplied, and the following Tables were formed:—

TABLE LI.—*Mean Micrometer Readings of the Vertical Force Magnetometer, multiplied by Co-efficients of Reduction, for each Day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	·004	·027	·014	·022		·005	·003	·001	·012	·007	·006	·004
2		·031	·015	·021	·029	·006	·002	-·001	·012		·005	·003
3	·006	·031	·015		·028	·005		-·002	·013	·010	·006	·001
4	·006	·029	·017	·021	·028	-·002	-·001	-·009		·008	·006	
5	·011	·028	·016	·023	·028		-·001	-·009	·014	·008	·004	·003
6	·011			·018	·029	-·001	-·001	-·009	·014	·006		·003
7	·011	·031	·014	·020	·029	·004	-·002		·007	·006	·007	·003
8	·013	·034	·016	·019	·032	·002	-·003	-·008	·008	·007	·007	·002
9		·005	·014	·020		·001	-·002	-·008	·007		·008	·005
10	·012	·009	·016		·035	·002		-·007	·005	·006	·007	·003
11	·013	·014	·017	·020	·035	·005	-·002	-·008		·007	·006	
12	·013	·013	·019	·022	·034		-·008	-·005	·003	·007	·003	·005
13	·014			·022	·031	·003	-·008	-·004	·004	·007		·004
14	·016	·002	·017	·019	·029	·002	-·004	-·004	·006	·007	·005	·006
15	·018	·002	·015	·020	·034	·005	-·003		·005	·007	·005	·004
16		·004	·014		·040	·007	-·004	-·004	·006		·005	·006
17	·019	·004	·014			·001		-·005	·005	·008	·007	·004
18	·022	·007	·019	·026	·022	·001	-·003	-·003		·008	·005	
19	·026	·009	·021	·023	·030		-·003	-·003	·006	·007	·005	·004
20	·026			·027	·035	·001	-·001	-·003	·007	·007		·004
21	·025	·011	·022	·034	·036	-·002	-·002		·005	·008	·006	·004
22	·022	·012	·017	·035		-·002	-·001	-·002	·007	·008	·007	·003
23		·013	·019	·035	·040	-·001	-·001	·002	·008	·009	·007	·002
24	·023	·014	·019		·041	-·002		·004	·009		·006	
25	·024	·016	·021	·031	·041	-·001	-·004	·004		·009	·009	
26	·025	·011	·024	·030	·040		-·004	·005	·006	·007	·006	·003
27	·026			·029	·044	-·002	-·006	·005	·009	·008		·002
28	·028	·012	·024	·028	·046	-·001	-·006		·005	·007	·003	·002
29	·028		·018	·028		·002	·002	·009	·006	·007	·003	·000
30			·017	·030	·046	·002	·002	·012	·008		·002	·000
31	·026		·020		·050			·009		·007		·000

It is manifest that the numbers in Table LI. must be corrected for the Changes of the Micrometer Readings (consequent upon new adjustments) and for changes in numbers produced by the multiplication of different Co-efficients for different numbers: the following are the corrections to be given to the numbers in the Table, on account of the above causes:—

From	1st January	.. to	8th February	.. correction	=		0·000
„	8th February	.. „	12th „	.... „	=	+	0·032
„	12th „	„	15th April	..... „	=	+	0·042
„	18th April	..... „	31st May	..... „	=	+	0·036
„	1st June	..... „	11th July	..... „	=	+	0·038
„	12th July	..... „	21st „	..... „	=	+	0·068
„	23rd „	..... „	12th August	.... „	=	+	0·058
„	13th August	.... „	22nd „	..... „	=	+	0·091
„	23rd „	..... „	6th September	.. „	=	+	0·075
„	7th September	.. „	31st December	.. „	=	+	0·082

The following Table gives the corrected numbers (according to the above rule), which are the Changes of Vertical Force in Decimals of the English Unit of Intensity:—

TABLE LII.—*Mean of Micrometer Readings of the Vertical Force Magnetometer, reduced and corrected for Instrumental Changes, for each Day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	·004	·027	·056	·064		·093	·091	·089	·087	·089	·068	·086
2		·031	·057	·063	·065	·094	·090	·087	·087		·087	·086
3	·006	·031	·057		·064	·093		·086	·088	·092	·068	·088
4	·006	·029	·059	·068	·064	·086	·087	·079		·090	·088	
5	·011	·028	·058	·065	·064		·087	·079	·089	·090	·086	·085
6	·011			·060	·065	·087	·087	·079	·089	·088		·085
7	·011	·031	·056	·062	·065	·092	·086		·089	·088	·089	·085
8	·013	·034	·058	·061	·068	·090	·085	·080	·090	·089	·089	·084
9		·037	·056	·062		·089	·086	·080	·089		·090	·087
10	·012	·041	·058		·071	·090		·071	·087	·088	·089	·085
11	·013	·043	·059	·062	·071	·093	·086	·080		·089	·088	
12	·013	·045	·061	·064	·070		·085	·089	·085	·089	·085	·087
13	·014			·064	·057	·091	·085	·077	·086	·089		·086
14	·016	·044	·059	·061	·065	·090	·084	·077	·088	·089	·087	·088
15	·018	·044	·057	·062	·070	·093	·085		·087	·089	·087	·086
16		·046	·056		·076	·095	·084	·077	·088		·088	·092
17	·019	·046	·056			·089		·076	·087	·090	·089	·086
18	·022	·049	·061	·062	·058	·089	·085	·078		·090	·087	
19	·025	·051	·063	·059	·076		·085	·078	·088	·089	·087	·086
20	·025			·063	·071	·089	·087	·078	·089	·089		·086
21	·025	·053	·064	·070	·072	·086	·086		·087	·090	·088	·086
22	·022	·054	·059	·071		·086	·087	·079	·089	·090	·089	·085
23		·055	·061	·071	·076	·087	·087	·077	·090	·091	·089	·084
24	·023	·056	·061		·077	·085		·079	·091		·088	
25	·024	·058	·063	·067	·077	·087	·084	·079		·091	·091	
26	·025	·053	·066	·066	·076		·084	·080	·088	·089	·088	·085
27	·026			·065	·080	·086	·082	·080	·091	·090		·084
28	·028	·054	·066	·064	·082	·087	·082		·087	·089	·085	·084
29	·028		·060	·064		·090	·090	·084	·088	·089	·085	·082
30			·059	·066	·082	·090	·090	·087	·091		·084	·082
31	·026		·062		·086			·084		·089		·082

The following Table (LIII.) was calculated as follows:—

Mean Value of Absolute Horizontal Intensity for the year	7·948 (Table XXX.)
Mean Inclination (observed) for the year	18°18′
∴ The Mean Value of Vertical Intensity, in English Units, for the year	2·627 ($Y = X \tan \delta$).

The Mean of Table LII. is 0·072, which corresponds with the Vertical Intensity 2·627, as above obtained, and therefore, if to each number in Table LII. 2·555 be added, the result would be that day's value of the Mean Vertical Intensity of the Earth: in this way the following Table was calculated:—

TABLE LIII.—*Mean Value of Absolute Vertical Intensity (in English Units) for each Day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	2·549	2·582	2·611	2·619		2·648	2·646	2·644	2·642	2·644	*2·648	*2·641
2		2·586	2·612	2·618	2·620	2·649	2·645	2·642	2·642		2·642	*2·640
3	2·561	2·586	2·612		2·619	2·648		2·641	2·643	2·647	2·643	2·638
4	2·561	2·584	2·614	2·618	2·619	2·641	2·642	*2·634		2·645	2·643	
5	2·566	2·583	2·613	2·620	2·619		2·642	*2·634	2·644	2·645	2·541	2·640
6	2·566			2·615	2·620	2·642	2·642	2·634	2·644	2·643		2·640
7	2·563	2·586	2·611	*2·617	*2·620	2·647	2·641		2·644	*2·643	2·644	2·640
8	2·566	2·589	2·613	*2·616	*2·623	2·645	2·644	2·635	2·645	2·644	2·644	2·639
9		2·592	2·611	2·617		2·644	*2·641	2·635	2·644		2·645	2·642
10	2·567	2·596	2·613		2·626	2·645		2·626	2·642	2·643	2·644	2·640
11	2·568	2·598	2·614	2·617	2·626	2·648	2·641	2·635		2·644	2·543	
12	2·568	2·600	2·616	2·619	2·625		2·640	2·636	*2·640	*2·644	2·640	2·642
13	2·569			2·619	2·622	2·646	2·640	2·632	*2·641	*2·644		2·643
14	2·571	2·599	2·614	2·616	2·620	2·645	2·639	2·632	2·643	2·644	2·642	2·643
15	2·573	2·599	2·612	2·617	*2·625	2·648	2·640		2·642	2·644	2·642	2·641
16		2·601	2·611		*2·631	2·650	2·639	2·632	2·643		2·643	*2·637
17	2·574	2·601	3·611			2·644		*2·631	2·642	2·645	2·644	*2·641
18	2·577	2·604	2·616	2·617	2·613	2·644	2·640	2·633		2·645	2·642	
19	2·590	2·606	*2·618	*2·614	2·621		2·640	2·633	2·643	2·644	2·642	*2·641
20	2·590			*2·618	2·626	2·644	2·642	2·633	2·644	2·644		*2·641
21	2·590	*2·608	*2·619	*2·625	2·627	2·641	2·641		2·642	2·645	2·643	*2·641
22	2·577	*2·609	2·614	2·626		2·641	2·642	2·634	2·644	*2·645	*2·644	2·640
23		2·610	2·616	2·626	2·631	2·642	2·642	2·632	*2·645	*2·646	2·644	2·641
24	2·578	*2·611	2·616		2·632	2·641		2·634	*2·646		2·643	2·639
25	2·579	*2·613	2·618	2·622	2·632	2·642	2·639	2·634		*2·646	*2·646	
26	2·580	2·608	2·621	2·621	2·631		2·639	2·636	*2·643	2·644	2·643	
27	2·581			2·620	*2·635	2·641	2·637	2·635	*2·646	2·644		2·640
28	2·583	2·609	2·621	2·619	*2·637	2·642	2·637		2·642	2·644	2·640	2·639
29	2·583		2·615	*2·619		2·645	2·645	2·639	2·643	2·644	2·640	2·637
30			2·614	*2·621	2·637	2·645	2·645	2·642	2·646		2·639	2·637
31	2·581		2·617		2·641			2·639		2·644		2·637

* Abnormal Days.

TABLE LIV.—*Shewing, for each Month, the Mean Value of Absolute Vertical Intensity (in English Units), as well as its Periodic Changes from the Mean of the Year.*

1847. MONTHS.	Mean Vertical Intensity.	Difference from the Mean of the Year.	For Seasons.	
	E. Units.	E. Units.		
January	2·573	-0·054	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter...	2·618
February	2·598	-·029		
March	2·615	-·012	Mean of { Apr. May, June, July, Aug. Sept. } or Summer..	2·635
April	2·619	-·008		
May	2·626	-·001	Mean of the Year..	2·627
June	2·645	·018		
July	2·641	·014		
August	2·635	·008	Greatest Mean in June	2·645
September	2·643	·016	Least „ in „	2·573
October	2·644	·017	Difference...	·072
November	2·642	·015		
December	2·640	·013		

TABLE LV.—*Mean Value of Absolute Vertical Force (in English Units) in each Month, for each Hour of Göttingen Mean Solar Time.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	
Noon.	2·572	2·597	2·615	2 620	2·627	2·645	2·645	2·636	2·643	2·643	2·642	2·639	4 12 P. M
1						·645	·641	·636	·642	·644	·641	·639	5 12 „
2	·572	·597	·615	·619	·626	·644	·640	·635	·642	·644	·642	·640	6 12 „
3						·644	·640	·634	·643	·644	·643	·641	7 12 „
4	·574	·598	·616	·621	·627	·645	·640	·635	·643	·645	·642	·641	8 12 „
5						·645	·640	·635	·643	·644	·642	·640	9 12 „
6	·574	·599	·616	·620	·927	·645	·641	·645	·643	·644	·643	·640	10 12 „
7						·645	·641	·636	·644	·645	·643	·641	11 12 „
8	·575	·599	·617	·620	·627	·645	·641	·636	·644	·645	·642	·641	0 12 A. M.
9						·646	·642	·636	·644	·645	·642	·641	1 12 „
10	·574	·599	·616	·620	·627	·646	·642	·636	·644	·645	·643	·641	2 12 „
11						·647	·643	·637	·644	·645	·643	·640	3 12 „
12	·574	·599	·616	·620	·628	·648	·643	·637	·645	·645	·643	·641	4 12 „
13						·649	·644	·638	·645	·645	·643	·641	5 12 „
14	·574	·600	·617	·622	·629	·648	·646	·640	·648	·646	·644	·640	6 12 „
15						·648	·645	·639	·647	·648	·643	·640	7 12 „
16	·575	·599	·616	·618	·626	·646	·642	·636	·645	·647	·642	·640	8 12 „
17						·644	·640	·633	·641	·643	·641	·640	9 12 „
18	·576	·596	·612	·613	·621	·642	·638	·631	·638	·641	·640	·639	10 12 „
19						·641	·636	·630	·637	·639	·639	·638	11 12 „
20	·570	·596	·612	·615	·622	·641	·637	·631	·639	·639	·641	·638	0 12 P. M.
21						·643	·638	·631	·641	·641	·642	·639	1 12 „
22	·572	·598	·614	·619	·626	·646	·639	6·33	·643	·644	·641	·639	2 12 „
23						·645	·641	·634	·644	·645	·641	·639	3 12 „

TABLE LVI.—*Mean Diurnal Changes of Absolute Vertical Force (in English Units) for each Month; the Monthly Mean being taken as the Standard.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	E. Units.	H. M.
Noon.	-0·001	-0·001	0·000	0·001	0·001	0·000	0·001	0·001	0·000	-0·001	0·000	-0·001	4 12 P. M.
1						0·000	0·000	0·001	-0·001	0·000	-0·001	-0·001	5 12 ,,
2	-0·001	-0·001	0·000	0·000	0·000	-0·001	-0·001	0·000	-0·001	0·000	0·000	0·000	6 12 ,,
3						-0·001	-0·001	-0·001	0·000	0·000	0·001	0·001	7 12 ,,
4	0·001	0·000	0·001	0·002	0·001	0·000	-0·001	0·000	0·000	0·001	0·000	0·001	8 12 ,,
5						0·000	-0·001	0·000	0·000	0·000	0·000	0·000	9 12 ,,
6	0·001	0·001	0·001	0·001	0·001	0·000	0·000	0·000	0·000	0·000	0·001	0·000	10 12 ,,
7						0·000	0·000	0·001	0·001	0·001	0·001	0·001	11 12 ,,
8	0·002	0·001	0·002	0·001	0·001	0·000	0·000	0·001	0·001	0·001	0·000	0·001	0 12 A. M.
9						0·001	0·001	0·001	0·001	0·001	0·000	0·001	1 12 ,,
10	0·001	0·001	0·001	0·001	0·001	0·001	0·001	0·001	0·001	0·001	0·001	0·001	2 12 ,,
11						0·002	0·002	0·002	0·001	0·001	0·001	0·000	3 12 ,,
12	0·001	0·001	0·001	0·001	0·002	0·003	0·002	0·002	0·002	0·001	0·001	0·001	4 12 ,,
13						0·004	0·003	0·003	0·002	0·001	0·001	0·001	5 12 ,,
14	0·001	0·002	0·002	0·003	0·003	0·004	0·005	0·005	0·005	0 002	0·002	0·000	6 12 ,,
15						0·003	0·004	0·004	0·004	0·004	0·001	0·000	7 12 ,,
16	0·002	0·001	-0·001	-0·001	0·000	0·001	0·001	0·001	0·002	0·003	0·000	0·000	8 12 ,,
17						-0·001	-0·001	-0·001	-0·002	0·000	-0·001	0·000	9 12 ,,
18	-0·003	-0·002	-0·003	-0·006	-0·006	-0·003	-0·002	-0·003	-0·005	-0·003	-0·002	-0·001	10 12 ,,
19						-0·004	-0·005	-0·005	-0·006	-0·005	-0·003	-0·002	11 12 ,,
20	-0·003	-0·002	-0·003	-0·004	-0·004	-0·004	-0·004	-0·004	-0·004	-0·005	-0·001	-0·002	0 12 P. M.
21						0·002	-0·003	-0·003	-0·002	-0·003	0·000	-0·001	1 12 ,,
22	-0·001	0·000	-0·001	0·000	0·000	0·000	-0·002	-0·002	0·000	0·000	-0·001	-0·001	2 12 ,,
23						0·000	0·000	0·000	0·001	0·001	-0·001	-0·001	3 12 ,,

From this Table it will be seen that, like the Declination, the range of the absolute Vertical Force was greater in Summer than it was in Winter; and that the Diurnal Changes of both Elements, viz. the Declination and the Vertical Force of the Earth, are Synchronic.

TABLE LVII.—*Shewing, for the Year* 1847, *the Mean Value of Vertical Force (in English Units) for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Value of Vertical Force.	Difference from the Mean of the whole.
	H. M.	E. Units.	
Noon.	4 12 P. M.	2·627	0·000
1	5 12 „	2·627	0·000
2	6 12 „	2·627	0·000
3	7 12 „	2·627	0·000
4	8 12 „	2·627	0·000
5	9 12 „	2·627	0·000
6	10 12 „	2·627	0·000
7	11 12 „	2·628	0·001
8	0 12 A. M.	2·628	0·001
9	1 12 „	2·628	0·001
10	2 12 „	2·628	0·001
11	3 12 „	2·628	0·001
12	4 12 „	2·628	0·001
13	5 12 „	2·629	0·002
14	6 12 „	2·630	0·003
15	7 12 „	2·629	0·002
16	8 12 „	2·628	0·001
17	9 12 „	2·626	−0·001
18	10 12 „	2·624	−0·003
19	11 12 „	2·623	−0·004
20	0 12 P. M.	2·624	−0·003
21	1 12 „	2·625	−0·002
22	2 12 „	2·626	−0·001
23	3 12 „	2·627	0·000

FOR DAY AND NIGHT.

G M. T.	E. Units.
Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night...	2·628
Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day.	2·626
Mean.....	2·627

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G. M. T. H.		B. C. T. H.
Maximum about....	14	or	6 A. M.
Minimum „	19	or	11 „
Maximum „	0	or	4 P. M.
Minimum „	2	or	6 „
Maximum „	8	or	Midnight.
Minimum „	12	or	4 A. M.

The Vertical Force, like the Declination, had three Maxima and three Minima during a Mean Solar Day; but all of these were not distinctly marked throughout the whole of the year, particularly the Evening Minima and Midnight Maxima, which were more difficult to discern in Summer than in Winter.

TABLE LVIII.—*Shewing, for the Year* 1847, *the hours of Göttingen Mean Solar Time at which the Mean Vertical Intensity, in each Month, was at its Diurnal Maximum and Minimum in a Mean Solar Day.*

1847.—MONTHS.	The Mean Hourly Vertical Intensity.		Mean Diurnal Range.	The time at which the Mean Hourly Vertical Intensity was	
	Maxima.	Minima.		Maxima.	Minima.
	E. Units.	E. Units.		Hours.	Hours.
January	2·575	2·570	0·005	16	18·20
February	2·600	2·596	0·004	14	18·20
March	2·617	2·612	0·005	14	18·20
April	2·622	2·613	0·009	14	18
May	2·629	2·621	0·008	14	18
June	2·649	2·641	0·008	14	19·20
July	2·646	2·636	0·010	14	19
August	2·640	2·630	0·010	14	19
September	2·648	2·637	0·011	14	19
October	2·648	2·639	0·009	15	19·20
November	2·644	2·639	0·005	14	19
December	2·641	2·638	0·003	13	19·20

From this Table it appears that the Range of the Vertical Force was greater in Summer than in Winter.

MAGNETIC DIP OR INCLINATION.

This Element was obtained in two ways, viz. by Calculation, and from Observation; and which of them is the most correct is, as yet, a question not perfectly solved.

Both the Values are therefore given, and it is considered that the Diurnal Changes, as obtained by Calculation, may be perfectly relied upon.

The calculated Dip still remains affected with all the errors that are left undetected in the Vertical Force Magnetometer.

TABLE LIX.—*Mean Dip (as observed with Nairn's Dipping Circle) for each day of Bombay Civil Time.*
(Observations taken every day, between 10 and 11 A. M.)

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1		18°27·8	18°50·0	18°44·7	18°25·3	18°08·4	18°14·0		18°10·3	18°01·9	18°02·8	18°09·4
2	18°26·3	18·30·6	18·41·9	18·44·0		18·12·2	18·07·5		17·48·1	18·12·2	18·18·7	17·58·1
3		18·23·1	18·41·2	18·25·0	17·29·0	18·14·4	17·55·3	18°03·7	17·37·5		18·38·4	18·06·6
4	18·37·5	18·19·4	18·29·0		18·26·7	18·16·9		17·57·2	17·52·5	17·47·6	18·28·4	17·55·3
5	18·40·6	18·10·0	18·32·2	18·36·6	18·12·2	18·09·4	18·08·4	18·11·2		18·06·5	18·05·6	
6	18·13·7	18·22·0	18·46·9	17·45·0	18·18·7		18·03·4	18·04·7	18·12·2	18·06·3	17·52·5	18·15·0
7	18·31·2			18·48·1	18·21·5	18·48·1	18·12·5	18·00·9	17·49·7	18·13·1		18·18·7
8		18·06·5	18·39·0	18·57·8	18·28·1	18·30·0	17·46·9		18·00·0	18·12·2	18·06·4	18·12·2
9	18·30·3	18·48·4	18·21·2	18·27·8		18·19·7	17·46·9	18·12·3	18·11·2	18·16·9	18·18·7	18·30·0
10		18·12·8	18·50·6	18·36·0	18·37·5	18·25·3	17·52·5	17·33·7	17·54·4		18·10·3	18·04·7
11		18·23·8	18·42·2		18·24·4	18·11·0		17·47·8	17·58·1	18·28·1	18·32·8	18·10·3
12	18·32·5	18·28·4	18·41·9	18·34·7	18·26·2	18·20·6	17·54·4	18·18·7		18·07·5	18·10·3	
13		18·25·3	18·30·6	18·33·7	18·19·7		18·21·6	18·02·8	18·06·9	18·36·6	18·25·3	18·00·0
14	18·21·5			18·39·7	18·17·8	18·20·6	18·30·0	18·21·5	18·03·7	18·24·4		18·12·2
15	18·11·2	18·57·5	18·25·3	18·51·5	18·15·9	18·06·6	18·25·3	17·53·4	18·20·6	18·23·4	18·10·3	18·19·7
16	18·24·4	18·33·7	18·37·0	18·18·7		18·12·2	18·11·9		18·09·4	18·10·3	18·32·8	18·30·9
17		18·18·1	18·28·1	18·13·1	18·25·3	18·18·7	18·06·6	18·18·1	18·08·4		18·21·5	18·33·7
18	18·45·9	18·15·9	18·43·1		18·26·2	18·22·5		18·23·4	18·16·9	18·23·4	18·06·5	18·30·9
19	18·36·6	18·18·7	18·34·7	18·19·7	18·11·2	18·20·6	18·24·4	18·11·2		18·00·0	18·23·4	
20		18·36·9	18·51·2	18·13·1	17·55·3			17·51·6	18·08·4	18·12·2	18·25·6	18·15·0
21				17·59·0	18·07·5	18·26·2	18·29·0	17·45·0	17·52·5	18·47·2		18·20·3
22		18·25·0	18·43·9	18·19·7	18·41·2	18·31·9	18·27·2		18·18·7	18·17·8	18·19·7	17·41·2
23		18·05·3	18·29·0	18·25·3		18·27·2	18·27·5	17·51·6	17·40·3	18·56·2	18·12·2	18·13·1
24		18·22·5	18·36·5	18·23·1	18·15·0	18·16·9	18·32·5	17·56·2	18·25·4		18·34·7	18·10·3
25	18·41·2	18·41·5	18·27·5	18·33·4	18·22·5	18·09·0		17·36·6	18·07·5	17·36·6	18·17·8	
26	18·45·0	18·15·9	18·37·5	18·30·9	18·26·2	18·25·0	17·49·7	17·52·5		17·51·5	18·19·7	
27	18·29·0	18·33·7	19·09·4		18·28·1		17·49·7	18·08·4	18·05·6	18·25·3	18·32·8	18·17·8
28	18·31·9			18·27·2	18·19·7	18·13·1	18·35·6	17·46·0	18·12·2	18·11·2		18·14·0
29	18·21·9		18·23·4	18·22·5	18·37·5	18·16·9	18·15·0		18·02·8	17·50·6	18·11·2	18·07·5
30			18·44·4	18·15·0		18·02·8	18·01·9	18·18·3	17·56·2	18·24·4	18·20·6	18·09·4
31			18·44·0		18·09·4		18·02·8	18·23·4				18·15·0

TABLE LX.—*Mean Dip (as obtained by Calculation) for each Day of Göttingen Mean Solar Time.*

Date, 1847.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	17°47·3	18°01·9	18°13·4	18°14·6		18°26·3	18°25·6	18°23·9	18°23·2	18°24·5	18°25·2	*18°23·1
2		18·04·2	18·13·1	18·14·3	18°14·8	18·26·6	18·25·1	18·23·4	18·22·9		18·24·1	*18·23·3
3	17·52·2	18·03·5	18·12·4		18·14·3	18·26·3		18·22·9	18·23·8	18·25·3	18·24·4	18·22·3
4	17·52·4	18·01·9	18·13·4	18·14·8	18·14·3	18·23·0	18·23·4	*18·20·9		18·24·4	18·24·8	
5	17·54·3	18·01·0	18·12·7	18·15·2	18·14·0		18·23·2	*18·21·4	18·24·4	18·24·8	18·23·8	18·22·7
6	17·54·6			18.12·9	18·14·6	18·22·9	18·23·2	18·20·9	13·24·3	18·24·0		18·22·5
7	17·54·4	18·03·2	18·12·2	*18·14·8	*18·15·2	18·25·4	18·23·5		18·24·3	*18·23·3	18·24·7	18·22·4
8	17·55·0	18·04·4	18·13·1	*18·14·8	*18·16·9	18·25·0	18·23·1	18·21·2	18·25·1	18·23·9	18·25·1	18·22·6
9		18·05·2	18·12·4	18·14·4		18·24·0	*18·23·7	18·21·0	18·25·0		18·24·6	18·23·9
10	17·54·8	18·06·3	18·13·5		18·17·1	18·25·0		18·17·3	18·23·9	18·23·6	18·25·6	18·23·3
11	17·55·1	18·07·1	18·13·6	18·13·6	18·17·0	18·26·3	18·23·7	18·21·1		18·23·6	18·24·9	
12	17·55·4	18·08·0	18·13·9	18·14·2	18·16·6		18·23·2	18·20·8	*18·22·7	*18·23·6	18·23·0	18·24·1
13	17·55·8			18·14·7	18·15·8	18·25·7	18·23·1	18·18·9	*18·24.3	*18·25·4		18·24·1
14	17·56·3	18·07·9	18·13·0	18·14·0	18·14·4	18·25·2	18·22·8	18·19·9	18·24·2	18·24·5	18·23.9	18·24·1
15	17·56·9	18·07·6	18·11·8	18·14·1	*18·17·8	18·25·9	18·23·4		18·23·4	18·24·5	18·23·6	18·23·3
16		18·08·3	18·11·4		*18·20·9	18·26·6	18·22·4	18·19·2	18·23·5		18·24·7	*18.21·9
17	17·57·4	18·08.1	18·11·2			18·24 3		*18·18.9	18·23·6	18·24·4	18·24·4	*18·25·6
18	17·58·4	18·09·4	18·13·8	18·13·4	18·12·6	18·24·0	18·23·0	18·19·7		18·24·7	18·23·8	
19	17·59·2	18·10·5	*18·19·2	*18·12·7	18·15·6		18·22·6	18·19·7	18·23·6	18°24·3	18·23·9	*18·27·4
20	17·59·7			*18·16·2	18·17·5	18·28·8	18·23·4	18·19·6	18·24·3	18·24·0		*18.29·0
21	17·59·8	*18·10·8	*18·18·4	*18·18·8	18·17·5	18·22·6	18·22·9		18·23·5	18·24·2	18·24·3	*18·25.6
22	17·58·5	*18·12·4	18·13·4	18·18·0		18·23·3	18·23·2	18·21·7	18·24·3	*18·24·4	*18·25·7	18·24·1
23		18·12·4	18·14·1	18·17·6	18·18·6	18·23·8	18·23·2	18·20·4	*18·25·2	*18·29·7	*18·26·2	18·23·4
24	17·58·4	*18·13·2	18·16·6		18·19·0	18·23·0		18·21·0	*18·30·?		*18·25·2	
25	17·59·0	*18·13·9	18·15·1	18·15·8	18·19·1	18·23·2	18·23·7	18·21·1		*18·27·1	*18·27·4	
26	17·59·9	18·11·6	18·15·9	18·15·1	18·18·8		18·22·2	18·21·2	*18·25·7	18·24·9	*18·25·6	18·23·2
27	18·00·6			18·14·9	*18·20·5	18·23·2	18·21.7	18·20·9	*18·25·4	18·25·1		18·22·6
28	18·01·5	18·11·4	18·15·4	18·14·8	*18·21·7	18·23·2	18·21·9		18·27·3	18·24·4	18.23·9	18·22·2
29	18·02·3		18·13·0	*18·14·9		18·25·2	18·24·9	18·22·1	18·24·9	18·24·2	18·23·5	18·21·9
30			18·13·0	*18·16·1	18·21·3	18·25·4	18·24·5	18·23·2	18·26·0		18·22·5	18·22·1
31	*18·02·4		18·13·9		18·20·4			18·22·0		18·24·0		18·21·7

* Abnormal Days, or Days of Magnetic Disturbance.

TABLE LXI.—*Shewing, for each Month, the Mean Dip (as observed with Nairn's Dipping Circle), and its Periodic Changes from the Mean of the Year.*

(Observations taken between 10 and 11 A. M. Bombay Civil Time.)

1847. MONTHS.	Mean Dip, as observed.	Difference from the Mean of the Year.	FOR SEASONS.
January	18°30·6	0°12·7	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter... 18°22·9
February	18·25·5	0·07·6	
March	18·38·5	0·20·6	Mean of { Apr. May, June, July, Aug. Sept. } or Summer.. 18·12·9
April	18·27·9	0·10·0	
May	18·15·0	-0·02·9	Mean of the Year.. 18·17·9
June	18·18·5	0·00·6	
July	18·10·5	-0·07·4	
August	18·02.0	-0·15·9	Greatest Mean in March ..... 18°38·5
September	18·03·2	-0·14·7	Least „ in August ..... 18·02.0
October	18·11·7	-0·06·2	Difference... .... 0·36·5
November	18·18·5	0·00·8	
December	18·12·7	-0·05·2	

TABLE LXII.—*Shewing, for each Month, the Mean Dip (as Calculated), and its Periodic Changes from the Mean of the Year.*

1847. MONTHS.	Mean Dip as Calculated.	Difference from the Mean of the Year.	FOR SEASONS.	
January	17°57'2	-0°20'7	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter..	18°14'10
February	18·07·6	-0·10·3		
March	18·13·6	-0·04·3	Mean of { Apr. May, June, July, Aug. Sept. } or Summer..	18·20·8
April	18·14·7	-0·03·2		
May	18·17·2	-0·00·7	Mean of the Year.....	18°17'9
June	18·24·8	0·06·9		
July	18·23·2	0·05·3		
August	18·20·9	0·03·0	Greatest Monthly, Mean, in Sept.....	18°24'2
September	18·24·2	0·06·3	Least " in January....	17·57·2
October.....	18·24·2	0·06·3		
November.....	18·24·2	0·06·3	Difference	0°27'0
December.....	18·23·1	0·05·2		

TABLE LXIII.—*Mean Dip (as obtained by Calculation) in each Month, for each hour of Göttingen Mean Solar Time.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	H. M.
Noon.	17°56'1	18°06'8	18°13'4	18°14'8	18°17'4	18°24'2	18°23'6	18°21'3	18°23'6	18°23'4	18°23'9	18°22'1	4 12 P. M.
1						·25·0	·23·5	·21·5	·23·6	·24·0	·23·9	·22·6	5 12 "
2	·56·8	·07·5	·13·9	·15·1	·17·6	·24·7	·23·3	·21·3	·23·9	·24·4	·24·4	·23·1	6 12 "
3						·24·7	·23·4	·21·1	·24·5	·24·7	·25·1	·23·8	7 12 "
4	·58·0	·08·0	·14·3	·16·0	·18·1	·25·2	·23·5	·21·5	·24·7	·24·9	·24·9	·23·9	8 12 "
5						·25·2	·23·5	·21·5	·24·7	·24·9	·24·9	·23·9	9 12 "
6	·58·0	·08·4	·14·6	·15·5	·18·1	·25·0	·23·8	·21·5	·24·7	·24·9	·25·3	·24·0	10 12 "
7						·25·0	·23·8	·21·9	·25·1	·25·4	·25·3	·24·4	11 12 "
8	·58·6	·08·4	·15·0	·15·5	·18·1	·25·0	·23·9	·21·8	·25·1	·25·4	·24·8	·24·3	0 12 A. M.
9						·25·4	·24·2	·21·9	·25·1	·25·4	·24·9	·24·5	1 12 "
10	·58·2	·08·4	·14·6	·15·8	·18·1	·25·4	·24·1	·21·4	·25·1	·25·4	·25·3	·24·4	2 12 "
11						·25·9	·24·5	·22·3	·25·1	·25·4	·25·3	·24·0	3 12 "
12	·58·4	·08·7	·14·6	·15·8	·18·4	·25·9	·24·5	·22·8	·25·5	·25·4	·25·3	·24·4	4 12 "
13						·26·4	·24·9	·22·7	·25·5	·25·5	·25·3	·24·2	5 12 "
14	·58·6	·09·2	·15·3	·16·4	·18·8	·26·5	·25·6	·23·4	·26·6	·25·7	·25·8	·23·8	6 12 "
15						·28·5	·25·1	·22·7	·26·2	·26·5	·25·3	·23·6	7 12 "
16	·58·2	·08·2	·14·1	·14·3	·16·7	·24·7	·23·4	·21·8	·25·1	·25·3	·24·2	·23·1	8 12 "
17						·23·8	·22·1	·19·3	·23·0	·23·4	·23·0	·22·3	9 12 "
18	·55·2	·05·9	·11·3	·11·1	·14·1	·22·6	·21·0	·18·5	·21·2	·21·6	·22·1	·21·4	10 12 "
19						·22·1	·20·1	·17·6	·20·5	·20·5	·21·6	·20·9	11 12 "
20	·54·7	·05·2	·11·1	·12·2	·14·3	·22·4	·20·6	·17·9	·21·4	·20·8	·22·2	·20·8	0 12 P. M.
21						·23·1	·21·1	·18·1	·22·2	·21·7	·22·7	·21·4	1 12 "
22	·55·6	·06·4	·11·5	·13·9	·16·5	·24·0	·21·7	·19·1	·23·3	·23·3	·22·7	·21·4	2 12 "
23						·24·3	·22·9	·19·9	·23·9	·23·9	·23·0	·21·7	3 12 "

TABLE LXIV.—*Mean Diurnal Changes of the Calculated Dip, for each Month; the Monthly Mean being taken as the Standard.*

Göttingen Mean Time.	MONTHS, 1847.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	-1'1	-0'8	-0'2	-0'1	0'2	-0'6	0'4	0'4	-0'6	-0'8	-0'3	-1'0	4 12 P. M.
1						0·2	0·3	0·6	-0·2	-0·2	-0·3	-0·5	5 12 ,,
2	-0·4	-0·1	0·3	0·4	0·4	-0·1	0·1	0·4	0·2	0·2	0·2	0·0	6 12 ,,
3						-0·1	0·2	0·2	0·5	0·5	0·9	0·7	7 12 ,,
4	0·8	0·4	0·7	1·3	0·9	0·4	0·3	0·6	0·7	0·7	0·7	0·8	8 12 ,,
5						0·4	0·3	0·6	0·7	0·7	0·7	0·8	9 12 ,,
6	0·8	0·8	1·0	0·8	0·9	0·2	0·6	0·6	0·7	0·7	1·1	0·9	10 12 ,,
7						0·2	0·6	1·0	1·2	1·2	1·1	1·3	11 12 ,,
8	1·4	0·8	1·4	0·5	0·9	0·2	0·7	0·9	1·2	1·2	0·6	1·2	0 12 A. M.
9						0·6	1·0	1·0	1·2	1·2	0·7	1·4	1 12 ,,
10	1·0	0·8	1·0	1·1	0·9	0·6	0·9	0·5	1·2	1·2	1·1	1·3	2 12 ,,
11						1·1	1·3	1·4	1·2	1·2	1·1	0·9	3 12 ,,
12	1·2	1·1	1·0	1·1	1·2	1·1	1·3	1·4	1 2	1·2	1·1	1·3	4 12 ,,
13						1·6	1·7	1·8	1·3	1·3	1·1	1·1	5 12 ,,
14	1·4	1·6	1·7	1·7	1·6	1·8	2·4	2·5	1·5	1·5	1·6	0·7	6 12 ,,
15						3·7	1·9	1·8	2·3	2·3	1·1	0·5	7 12 ,,
16	1·0	0·6	0·5	-0·4	-0·5	-0·1	0·2	0·9	1·1	1·1	0·0	0·0	8 12 ,,
17						-1·0	-1·1	-1·6	-0·8	-0·8	-1·2	-0·8	9 12 ,,
18	-2·0	-1·7	-2·3	-3·6	-3·1	-2·2	-2·2	-2·4	-2·6	-2·6	-2·1	-1·7	10 12 ,,
19						-2·7	-3·1	-3·3	-3·7	-3·7	-2·6	-2·2	11 12 ,,
20	-2·5	-2·4	-2·5	-2·5	-2·9	-2·4	-2·6	-3·0	-3·4	-3·4	-2·0	-2·3	0 12 P. M.
21						-1·7	-2·1	-2·8	-2·5	-2·5	-1·5	-1·7	1 12 ,,
22	-1·6	-0·8	-2·1	-0·8	-0·7	-0·8	-1·5	-1·8	-0·9	-0·9	-1·5	-1·7	2 12 ,,
23						-0·8	-0·3	-1·0	-0·3	-0·3	-1·2	-1·4	3 12 ,,

TABLE LXV.—*Shewing, for the Year* 1847, *the Mean Calculated Dip for each Hour of Göttingen and Bombay Mean Time, also the Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Calculated Dip.	Difference from the Mean of the whole.
	H. M.		
Noon.	4 12 P. M.	18°17'5	-0·4
1	5 12 ,,	18.17.8	-0.1
2	6 12 ,,	18.18.0	0.1
3	7 12 ,,	18.18.2	0.3
4	8 12 ,,	18.18.4	0.5
5	9 12 ,,	18.18.5	0.6
6	10 12 ,,	18.18.6	0.7
7	11 12 ,,	18.18.8	0.9
8	0 12 A. M.	18.18.8	0.9
9	1 12 ,,	18.18.8	0.9
10	2 12 ,,	18.18.8	0.9
11	3 12 ,,	18.19.0	1.1
12	4 12 ,,	18.19.1	1.2
13	5 12 ,,	18.19.3	1.4
14	6 12 ,,	18.19.6	1.7
15	7 12 ,,	18.19.8	1.9
16	8 12 ,,	18.18.3	0.4
17	9 12 ,,	18.16.8	-1.1
18	10 12 ,,	18.15.5	-2.4
19	11 12 ,,	18.14.9	-3.0
20	0 12 P. M.	18.15.3	-2.6
21	1 12 ,,	18.15.9	-2.0
22	2 12 ,,	18.16.6	-1.3
23	3 12 ,,	18.17.1	-0.8

FOR DAY AND NIGHT.

G. M. T.

Mean of { 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, } or Night ..... 18°18'7

Mean of { 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1. } or Day 18.17.1

Mean..... 18°17'9

TIMES OF MEAN MAXIMA AND MINIMA.

	G. M. T. H.		B. C. T.
A Maximum about.....	9	or	1 A. M.
„ Minimum „	10	or	2 A. M.
„ Maximum „	15	or	7 A. M.
„ Minimum „	19	or	11 A. M.

TABLE LXVI.—*Shewing, for the Year* 1847, *the hours of Göttingen Mean Solar Time at which the Mean Dip, calculated in each Month, was at its Diurnal Maximum and Minimum.*

1847. MONTHS.	The Mean Hourly Dip (calculated).		Mean Diurnal Range.	The time at which the Mean Hourly Dip was at	
	Maxima.	Minima.		Maxima.	Minima.
				Hours.	Hours.
January	17°58·6	17°54·7	0°3·9	14	20
February	18·09·2	18·05·2	0·4·0	14	20
March	·15·3	·11·1	0·4·2	14	20
April	·16·4	·11·1	0·5·3	14	18
May	·18·8	·14·1	0·4·7	14	19
June	·28·5	·22·1	0·6·4	15	19
July	·25·6	·20·1	0·5·5	14	19
August	·23·4	·17·6	0·5·8	14	19
September	·26·6	·20·5	0·6·1	14	19
October	·26·5	·20·5	0·6·0	15	19
November	·25·8	·21·6	0·4·2	14	19
December	·24·4	·20·8	0·3·6	12	20

From this Table the Mean Daily Range of Dip seems to be greater in Summer than in Winter.

MAGNETIC TOTAL INTENSITY OF THE EARTH.

This is deduced from the Horizontal Intensity (as obtained by means of the Large Horizontal Force Magnetometer) and the deduced Dip.

The Absolute Values of the observed, as well as the deduced Dip, are uncertain. The movements of the Vertical Force, from day to day, have not yet been fully understood; though its movements, during a day, may be perfectly relied upon: from these reasons, and the small effect that any little Changes in the assumed Dip cause in the Values of *Total Intensity*, the calculation of the Daily Values of Mean *Total Intensity* have not been made.

In the following Tables, the Monthly and the Hourly Values of Total Intensity have been given; and upon comparing the Changes in this and those in the Horizontal Intensity, both will be found to agree very nearly with one another.

TABLE LXVII.—*Shewing, for each Month, the Mean Value of Total Intensity (in English Units), as well as its Periodic Changes from the Mean of the Year.*

1847. MONTHS.	Mean Value of Total Intensity.	Difference from the Mean of the Year.	For Seasons.	
	E. Units.	E. Units.		E. Units.
January	8·34·8	−0·01·8	Mean of {Jan. Feb. March, Oct. Nov. Dec.} or Winter...	8·362
February	·350	−·016		
March	·360	−·006	Mean of {Apr. May, June, July, Aug. Sept.} or Summer..	8·371
April	·365	−·001		
May	·370	·004	Mean of the Year..	8·365
June	·374	·008		
July	·372	·006		
August	·370	·004	Greatest Monthly Mean in October	8·375
September	·372	·006	Least „ „ in January	8·348
October	·375	·009	Difference...	·027
November	·369	·003		
December	·370	·004		

TABLE LXVIII.—*Shewing, for each Month, the Mean Value of Total Intensity, reduced for the effects of external Air; as well as its Periodic Changes from the Mean of the Year.*

1847. MONTHS.	Mean Value of Total Intensity (reduced).	Difference from the Mean of the Year.	For Seasons.	
	E. Units.	E. Units.		E. Units.
January	8·355	−0·013	Mean of {Jan. Feb. March, Oct. Nov. Dec.} or Winter..	8·367
February	·360	−·008		
March	·362	−·006	Mean of {Apr. May, June, July, Aug. Sept.} or Summer..	8·369
April	·362	−·006		
May	·365	−·003	Mean of the Year.....	8·368
June	·372	·004		
July	·371	·003		
August	·372	·004	Greatest Monthly Mean in November..	8·376
September	·374	·006	Least „ „ in January....	8·355
October	·373	·005	Difference..... ...	·021
November	·376	·008		
December	·376	·008		

TABLE LXIX.—*Shewing, for the Year* 1847, *the Mean Value of Total Intensity (in English Units) for each Hour of Göttingen and Bombay Mean Time, and its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Absolute Value of Total Intensity (reduced).	Difference from the Mean of the whole.
	H. M.	E. Units.	E. Units.
Noon.	4 12 P. M.	8·369	0·003
1	5 12 ,,	8·366	0·000
2	6 12 ,,	8·364	-0·002
3	7 12 ,,	8·363	-0·003
4	8 12 ,,	8·362	-0·004
5	9 12 ,,	8·362	-0·004
6	10 12 ,,	8·362	-0·004
7	11 12 ,,	8·362	-0·004
8	0 12 A. M.	8·362	-0·004
9	1 12 ,,	8·362	-0·004
10	2 12 ,,	8·362	-0·004
11	3 12 ,,	8·362	-0·004
12	4 12 ,,	8·362	-0·004
13	5 12 ,,	8·362	-0·004
14	6 12 ,,	8·362	-0·004
15	7 12 ,,	8·364	-0·002
16	8 12 ,,	8·367	0·001
17	9 12 ,,	8·371	0·005
18	10 12 ,,	8·374	0·008
19	11 12 ,,	8·375	0·009
20	0 12 P. M.	8·375	0·009
21	1 12 ,,	8·374	0·008
22	2 12 ,,	8·373	0·007
23	3 12 ,,	8·371	0·005

FOR DAY AND NIGHT.

	G. M. T.	E. Units.
Mean of	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	or Night ..... 8·362
Mean of	14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1	or Day ..... 8·370
		Mean..... 8·366

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G. M. T. H.	B. C. T.
A Minimum about	14	or 6 P. M.
A Maximum ,, ...	19	or 11 ,,

TABLE LXX.—*Shewing, for the Year* 1847, *the Mean Value of Total Intensity, corrected for the effects of External and Free Air for each Hour of Göttingen and Bombay Mean Time; also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Value of Total Intensity (corrected.)	Difference from the Mean of the whole.
	H. M.	E. Units.	E. Units.
Noon.	4 12 P. M.	8·366	-0·002
1	5 12 ,,	8·365	-0·003
2	6 12 ,,	8·365	-0·003
3	7 12 ,,	8·366	-0·002
4	8 12 ,,	8·365	-0·003
5	9 12 ,,	8·366	-0·002
6	10 12 ,,	8·367	-0·001
7	11 12 ,,	8·367	-0·001
8	0 12 A. M.	8·368	0·000
9	1 12 ,,	8·368	0·000
10	2 12 ,,	8·368	0·000
11	3 12 ,,	8·369	0·001
12	4 12 ,,	8·369	0·001
13	5 12 ,,	8·370	0·002
14	6 12 ,,	8·370	0·002
15	7 12 ,,	8·369	0·001
16	8 12 ,,	8·369	0·001
17	9 12 ,,	8·369	0·001
18	10 12 ,,	8·370	0·002
19	11 12 ,,	8·368	0·000
20	0 12 P. M.	8·368	0·000
21	1 12 ,,	8·367	0·001
22	2 12 ,,	8·367	0·001
23	3 12 ,,	8·367	0·001

FOR DAY AND NIGHT.

	G. M. T.	E. Units.
Mean of	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,	or Night... 8·367
Mean of	14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,	or Day. 8·368
		Mean..... ... 8·368

TIMES OF MEAN MAXIMA AND MINIMA.

	G. M. T. H.	B. C. T.
A Minimum about....	1	or 5 P. M.
,, Maximum ,, ...	3	or 7 ,,
,, Minimum ,, ...	4	or 8 ,,
,, Maximum ,, ...	14	or 6 A. M.
,, Minimum ,, ...	16	or 8 ,,
,, Maximum ,, ...	18	or 10 ,,

SUMMARY OF THE MAGNETIC RESULTS.

In the preceding Tables the results of the five Magnetic Elements are given separately by themselves, and as the result of the whole is wanting, it is given under this head.

DIURNAL CHANGES.

The Diurnal Changes of each separate Magnetic Element present a certain similarity with one another (see Plate A). There seems to be in each Element three Maxima and three Minima, and the time at which they occurred are also very nearly the same. The curves of the DECLINATION, DIP, and the VERTICAL INTENSITY seem to be perfectly alike in form, though the times of the turning points of the DECLINATION are about an hour after those of the other *two Elements*. The coincidence between the curves of the HORIZONTAL and TOTAL FORCE is also striking.

These phenomena tend to prove, that the *cause*, whatever it may be, which affects the Diurnal Changes in the Magnetic Elements is the same in all. And also, since the times of Maxima and Minima, in all the Elements, coincide nearly, it is probable that it proceeds nearly from one direction.

In the following Table are given the Times of Maxima and Minima of the different Magnetic Elements. The Positive sign before the figures denotes the time of Maximum, and the Negative sign that of Minimum:—

HOURS OF GÖTTINGEN MEAN TIME.

Elements.	h.	h.	h.	h.	h.	h.
DECLINATION.....	+ 0	− 3	+ 9	− 12	+ 16	− 20
HORIZONTAL FORCE.. ..	− 1	+ 2	− 4	+ 14	− 15	+ 18
VERTICAL FORCE.... ..	+ 0	− 2	+ 8	− 12	+ 14	− 19
TOTAL FORCE.....	− 1	+ 2	− 4	+ 14	− 15	+ 18
DIP.....	+	−	+ 9	− 10	+ 15	− 19
Average Times....	0	2	7	13	16	19

The above conclusions having been derived from Plate A, this Plate also furnishes another curious phenomenon: in reckoning by Göttingen Mean Solar Time at Bombay,

The Sun sets at 2 Hours.
„ „ rises at 14 Hours.

Now all the Magnetic Curves, from 2 to 14 hours, dwindle to nearly a straight line; and all the great Changes are seen to occur at from 14 to 2 hours, *i. e.* in the day-time: therefore all the Magnetic Elements may be said to be *steady* at *Night*, and *unsteady* in the *Day-time*.

The presence of the SUN seems to affect the high Changes observed in the day-time; and it is also apparent that it is not by the mere heat from that body that the observed Changes are caused, for if this were the case, the Curves of the Temperature would be similar in form with those of the Magnetic

ones. Besides, the influence begins to be felt about two hours before Sunrise, and lasts for nearly the same time after Sunset, so that the Sun's influence appears to be quite independent of the *temperature at the place.*

DIURNAL RANGES.

The *Diurnal Ranges* of all the Magnetic Elements are *large* in *Summer* and *small* in *Winter*; this will be clearly seen by looking at the Tables.

However, to make this fact more apparent, the following table has been added:—

Elements.	*Mean Diurnal Ranges.* *Summer.*	*Winter.*
Declination	5′0	2′0
Dip	5·6	4·3
Horizontal Intensity (in English Units)	0·009	0·007
Vertical Intensity	0·009	0·005
Total Intensity	Nearly the same as that of the Horizontal Intensity.	

PERIODICAL CHANGES WITHIN THE YEAR.

These Changes have not been well determined for all the Elements, since the Inclination and the Vertical Force Magnetometer, from which some of the Elements were deduced, were not, as regards their mechanical construction, in good working order; but, notwithstanding, that which has been obtained is given in the following Table:—

Elements.	*Mean Values in* *Summer.*	*Winter.*		*Diff.*
	East.			
Declination	0°13′8	0°14′3	+	0·5
Dip	18°20·8	18·14·1	—	6·7
Horizontal Intensity (in English Units)	7·944	7·946	+	·002
Vertical Intensity	2·635	2·618	—	·017
Total Intensity	8·369	8·367	—	·002

The Summer Values of the *Declination* are higher than the Winter Values; but with respect to the *Forces*, the inverse rule holds good: and, therefore, with the increase in the Direction, the *Forces* are reduced.

DIFFERENCE BETWEEN THE DAY AND NIGHT MEANS.

A conclusion, similar to the foregoing, may be expected from the Mean Values of the different Magnetic Elements for the Day and for the Night, which will be seen from the following Table:—

Elements.	*Mean of* *Day.*	*Night.*	*Diff.*
	East.		
Declination	0°14′0	0°14′0	0·0
Dip	18°17′1	18°18′7	+ 1·6
Horizontal Intensity (in English Units)	7·946	7·944	— ·002
Vertical Intensity	2·626	2·628	+ ·002
Total Intensity	8·368	8·367	— ·001

Nearly the same conclusion as the preceding may be drawn from these numbers; and it is, therefore, possible that Solar heat has some perceptible effect on the Magnetic Changes. The difference, however, between the Mean of Day and the Mean of Night, is so small, that it may be almost neglected; and the above conclusion, viz. the effect of *Solar heat* on the Magnetic Elements, is scarcely sufficient to account for the enormous Changes that they undergo during the day-time.

MAGNETIC DISTURBANCES.

The great regularity of the Magnetic Observations at Bombay, during the greater part of a year, renders it necessary to devote a separate description to those days on which Magnetic Disturbances took place. By a Disturbance is meant the large convolutions which take place in any one of the Magnetic Elements; as small causes are always in operation, and the Readings of the Instruments are never clear of errors proceeding from these causes. It is true that the Mean of many Observations will nearly obliterate their effect, how far that can be done is not easily determined. But since, as near as possible, an approximation must be made to the true form of the daily Curves of each Element, for the purpose of determining the effect of Disturbances, the following method has been adopted :—

During a Month, the Days on which the Magnetometers ranged widely from their usual daily range, were struck out; and the Mean Daily Curve was found out for each Month, which was considered as a "*Normal Curve*:" also the rejected Days were considered as "*Abnormal Days.*"

The *Normal Curve* was considered as free from all Disturbances, for the Disturbance or *Abnormal Days* were not taken into account; and the minor Disturbances were supposed to cancel the effects of one another in the Monthy Mean.

In the following pages, the *Abnormal* or the larger Disturbances are only considered, as the minor ones were very difficult to arrange; but they were supposed to be affected by the same causes as the larger ones.

During this year (1847) the number of Days which were considered as Abnormal were forty-seven.

When a Disturbance took place, it was at first detected by the rapid decrease in the Scale Readings of the Horizontal Force Magnetometers. On the *Declination* the effect of the Disturbance was generally to increase this Element Easterly; on the Horizontal Force, to rapidly decrease the Scale Readings; but on the Vertical Force, it was rather curious, as during a Disturbance the Magnet continued moving upwards and downwards, and its Curve very much resembled that of the Declination; yet, notwithstanding this, the Mean Position of a day was not affected in the slightest degree. On these days the Mean Position of the other two Magnetometers was sensibly altered.

On Disturbance or *Abnormal Days* the different Magnetic Elements underwent the following Changes at the time of the greatest Intensity:—

THE DECLINATION became more EASTERLY.
THE DIP increased.
THE HORIZONTAL INTENSITY suddenly decreased.
THE VERTICAL INTENSITY underwent little or no change.
THE TOTAL INTENSITY suddenly decreased.

TABLÆ LXXI.—*Shewing the Mean Daily State of each Magnetic Element, during a Disturbance, compared with the Normal State.*

1847. Disturbance or Abnormal Day.		Declination.		Horizontal Intensity at the Existing Temperature of the External Air.		Vertical Intensity.		Dip Deduced.		Total Intensity Deduced.	
		Mean of the Disturbed Day.	Normal Declination.	Mean of the Disturbed Day.	Normal Horizontal Intensity.	Mean of the Disturbed Day.	Normal Vertical Intensity.	Mean of the Disturbed Day.	Normal Dip Deduced.	Mean of the Disturbed Day.	Normal Total Intensity.
		East.	East.	English Units of Intensity.	English Units of Intensity.	English Units of Intensity.	English Units of Intensity.			English Units of Intensity.	English Units of Intensity.
Jan.	31	0°14·9	0°14·0	7·925	7·940	2·591	2·585	18°02·4	18°02·4	8·335	8·350
Feb.	21	0·13·8	0·14·1	7·942	7·935	2·608	2·601	18·10·5	18·09·0	8·359	8·353
	22	0·14·5	0·14·1	7·932	7·936	2·609	2·602	18·12·4	18·09·5	8·350	8·352
	24	0·14·1	0·14·1	7·932	7·936	2·611	2·605	18·13·2	18·10·0	8·351	8·353
	25	0·14·5	0·14·1	7·933	7·937	2·613	2·606	18·13·9	18·10·2	8·362	8·354
Mar.	1	0·14·8	0·14·1	7·931	7·937	2·611	2·609	18·13·4	18·11·0	8·346	8·355
	19	0·15·2	0·14·2	7·926	7·942	2·618	2·615	18·19·4	18·13·7	8·349	8·360
	21	0·14·7	0·14·2	7·934	7·942	2·619	2·617	18·18·4	18·13·9	8·357	8·360
April	7	0·14·8	0·14·1	7·938	7·944	2·617	2·618	18·14·8	18·14·4	8·358	8·363
	8	0·14·6	0·41·1	7·935	7·944	2·616	2·618	18·14·6	18·14·5	8·356	8·363
	19	0·13·8	0·14·1	7·945	7·945	2·614	2·618	18·12·7	18·14·9	8·364	8·365
	20	0·15·1	0·14·1	7·930	7·946	2·618	2·619	18·16·2	18·15·0	8·351	8·365
	21	0·14·9	0·14·1	7·931	7·946	6·625	2·620	18·18·8	18·15·0	8·354	8·366
	29	0·14·1	0·14·0	7·948	7·946	2·619	2·621	18·14·9	18·15·5	8·364	8·369
	30	0·14·5	0·14·0	7·940	7·946	2·621	2·621	18·16·1	18·15·8	8·361	8·369
May	7	0·14·0	0·13·9	7·944	7·946	2·620	2·622	18·15·2	18·16·1	8·365	8·370
	8	0·14·5	0·13·9	7·932	7·946	2·623	2·622	18·16·9	18·16·1	8·364	8·370
	15	0·14·1	0·13·9	7·939	7·947	2·625	2·626	18·17·3	18·17·3	8·362	8·370
	16	0·14·6	0·13·9	7·933	7·947	2·631	2·626	18·20·9	18·17·5	8·358	8·370
	27	0·13·7	0·13·8	7·948	7·947	2·635	2·631	18·20·5	18·20·4	8·373	8·371
	28	0·13·5	0·13·8	7·945	7·947	2·637	2·635	18·21·7	18·20·7	8·371	8·371
July	9	0·13·5	0·13·4	7·940	7·945	2·641	2·642	18·23·7	18·23·7	8·370	8·372
Aug.	4	0·13·8	0·13·5	7·942	7·944	2·634	2·636	18·20·9	18·21·3	8·367	8·371
	5	0·13·9	0·13·5	7·938	7·944	2·634	2·636	18·21·4	18·21·2	8·364	8·371
	17	0·13·7	0·13·8	7·949	7·945	2·631	2·636	18·18·9	18·20·7	8·373	8·371
Sept.	12	0·13·5	0·13·8	7·946	7·946	2·640	2·640	18·22·7	18·24·0	8·373	8·371
	13	0·14·5	0·13·8	7·937	7·946	2·641	2·641	18·24·3	18·24·1	8·365	8·371
	23	0·14·3	0·13·9	7·943	7·947	2·645	2·645	18·25·2	18·24·2	8·372	8·372
	24	0·16·4	0·13·9	7·903	7·947	2·646	2·645	18·20·7	18·24·4	8·334	8·372
	26	0·14·4	0·14·1	7·932	7·946	2·643	2·645	18·25·7	18·24·4	8·361	8·373
	27	0·15·5	0·14·1	7·920	7·946	2·646	2·646	18·28·4	18·24·2	8·350	8·373
Oct.	7	0·14·1	0·14·2	7·951	7·945	2·643	2·646	18·23·3	18·24·2	8·379	8·373
	12	0·14·2	0·14·3	7·951	7·944	2·644	2·646	18·23·6	18·24·2	8·379	8·374
	13	0·15·2	0·14·3	7·937	7·944	2·644	2·646	18·25·4	18·24·2	8·364	8·374
	22	0·14·0	0·14·4	7·948	7·942	2·645	2·645	18·24·4	18·24·2	8·377	8·374
	23	0·16·4	0·14·4	7·910	7·941	2·646	2·645	18·29·7	18·24·2	8·341	8·374
	25	0·15·6	0·14·4	7·930	7·940	2·646	2·645	18·27·1	18·24·2	8·360	8·374
Nov.	1	0·15·1	0·14·4	7·936	7·938	2·643	2·643	18·26·2	18·24·2	8·365	8·373
	22	0·14·5	0·14·4	7·935	7·935	2·644	2·640	18·26·7	18·24·2	8·363	8·370
	25	0·15·5	0·14·4	7·928	7·936	2·646	2·640	18·27·4	18·24·0	8·357	8·369
Dec.	1	0·14·1	0·14·5	7·946	7·936	2·641	2·640	18·23·1	18·24·0	8·373	8·369
	2	0·14·3	0·14·5	7·941	7·936	2·640	2·640	18·23·3	18·24·0	8·368	8·369
	16	0·14·2	0·14·5	7·945	7·941	2·637	2·640	18·21·9	18·23·1	8·371	8·368
	17	0·15·8	0·14·5	7·927	7·942	2·641	2·640	18·25·6	18·23·1	8·355	8·368
	19	0·17·3	0·14·5	7·913	7·943	2·641	2·640	18·27·4	18·23·0	8·342	8·367
	20	0·16·8	0·14·5	7·901	7·943	2·641	2·640	18·29·0	18·23·0	8·331	8·367
	21	0·15·6	0·14·5	7·927	7·944	2·641	2·640	18·25·6	18·23·0	8·356	8·367

TABLE LXXII.—*Shewing the effect of the Disturbances on each of the Magnetic Elements, as obtained from Table LXXI. by subtracting the Normal State from the Disturbed Mean.*

1847, Disturbance or Abnormal Days.		The Effect of the Disturbance on the Mean Daily State of: Declination.	Horizontal Intensity.	Vertical Intensity.	Dip Reduced.	Total Intensity Reduced.			
Jan.	31	0'9	-0.015	0.004	0'0	-0.015	The Disturbances began this day.		
Feb.	21	-0.3	0.007	0.007	1.8	0.006			
	22	0.4	-0.004	0.007	3.1	-0.002			
	24	0.0	-0.004	0.006	3.2	-0.002			
	25	0.4	-0.004	0.007	3.7	-0.002			
Mar.	1	0.7	-0.006	0.002	2.4	-0.009			
	19	1.0	-0.016	0.003	5.7	-0.011			
	21	0.5	-0.008	0.002	4.5	-0.003			
April	7	0.7	-0.006	-0.001	0.4	-0.005			
	8	0.5	-0.009	-0.002	0.8	-0.008			
	19	-0.3	0.000	-0.004	+2.2	-0.001	Ditto	ditto	ditto.
	20	1.0	-0.016	-0.001	1.2	-0.014			
	21	0.8	-0.015	0.005	3.8	-0.011			
	29	0.1	-0.003	-0.002	-0.6	-0.005	Ditto	ditto	ditto.
	30	0.5	-0.006	0.000	0.3	-0.006			
May	7	0.2	-0.002	-0.002	-0.9	-0.005	Ditto	ditto	ditto.
	8	0.6	-0.014	0.001	0.8	-0.016			
	15	0.2	-0.008	-0.001	0.5	-0.008			
	16	0.7	-0.014	0.005	3.4	-0.012			
	27	-0.1	0.001	0.001	0.1	0.002	Ditto	ditto	ditto.
	28	-0.3	-0.002	0.002	1.0	0.000			
July	9	0.1	-0.005	-0.001	0.0	-0.002			
Aug.	4	0.3	-0.002	-0.002	-0.4	-0.004			
	5	0.4	-0.006	-0.002	0.2	-0.007			
	17	-0.1	0.004	-0.005	-1.8	0.002			
Sept.	12	-0.3	0.000	0.000	-1.3	0.002	Ditto	ditto	ditto.
	13	0.7	-0.009	0.000	0.2	-0.006			
	23	0.4	-0.004	0.000	1.0	0.000	Ditto	ditto	ditto.
	24	2.5	-0.044	0.001	6.5	-0.038			
	26	0.3	-0.014	-0.002	1.1	-0.012			
	27	1.4	-0.026	0.000	4.2	-0.023			
Oct.	7	-0.1	0.006	-0.003	-0.9	0.006			
	12	-0.1	0.007	-0.002	-0.6	0.005	Ditto	ditto	ditto.
	13	0.9	-0.007	-0.002	1.2	-0.010			
	22	-0.4	0.006	0.000	0.2	0.003	Ditto	ditto	ditto.
	23	2.0	-0.031	0.001	5.5	-0.033			
	25	1.2	-0.010	0.001	2.9	-0.014			
Nov.	1	0.7	-0.002	0.000	1.0	-0.008			
	22	0.1	0.000	0.004	1.5	-0.007	Ditto	ditto	ditto.
	25	1.1	-0.008	0.006	3.0	-0.012			
Dec.	1	-0.4	0.010	0.001	-0.9	0.004	Ditto	ditto	ditto.
	2	-0.2	0.005	0.000	-0.7	-0.001			
	16	-0.2	0.004	-0.003	-1.2	0.003	Ditto	ditto	ditto.
	17	1.3	-0.015	0.001	2.5	-0.013			
	19	2.8	-0.030	0.001	4.4	-0.025			
	20	2.3	-0.043	0.001	6.0	-0.036			
	21	1.1	-0.017	0.001	2.6	-0.011			

In the above Table there appears to be a remarkable relation existing between the different Numbers in Horizontal Column: to make this more apparent, the following Table was prepared from the above Table.

TABLE LXXIII.—*Shewing the Mean Effects of the Disturbances on several Magnetic Elements compared with its Mean Effects on the Horizontal Intensity.*

Weight.	Mean Effect of Disturbance on Horizontal Intensity.	Corresponding Effects of the Disturbance on			
		Declination.	Vertical Intensity.	Dip.	Total Intensity.
5	·007	−0·3	·001	0·1	·005
6	·001	−0·2	−·001	−0·3	·000
9	−·003	0·2	·002	1·2	−·003
11	−·007	0·6	·000	1·2	−·007
4	−·013	0·7	·001	2·1	−·013
6	−·016	1·0	·001	2·6	−·013
1	−·026	1·4	·000	4·2	−·023
2	−·030	2·4	·001	5·0	−·029
2	−·043	2·4	·001	6·2	−·037

From this Table it will be seen that all the Magnetic Elements were disturbed nearly in the same proportion, whether the Disturbance was great or small. From the last five lines in the Table we find, by proportion,

That if the Disturbance affects the Declination	1·0	Easterly,
it will affect the Dip.....	2·7	Increasing,
„ „ „ the Horizontal Intensity.	0·017	Decreasing,
„ „ „ the Vertical Intensity...	0·000	
„ „ „ the Total Intensity.....	0·015	Decreasing.

And since, in nearly all the Disturbances, the different Magnetic Elements are affected in the same proportion, it is inferred that the *Disturbing Magnetic Pole* is situated in one place, and that that place is not coincident with the *Earth's Magnetic Pole.* Further, that this Disturbed Pole only acquires or loses its Magnetic property: the *Magnetic Elements* are, therefore, only affected with this increase or decrease in their Polarity.

This place is easily determined, and the above inferences established, if we suppose that these Disturbances are occasioned by a small force f, in a direction of which the Declination is ψ', and the Dip θ', we have then the equations:—

$$f \cos\theta' \cos(\psi' - \psi) = \delta X$$
$$f \cos\theta' \sin(\psi' - \psi) = (X + \delta X) \tan\delta\psi$$
$$f \sin\theta' = \delta Z$$

then $$\tan(\psi' - \psi) = \frac{X + \delta X}{\delta X} \cdot \tan\delta\psi$$

$$\tan\theta' = \frac{\delta Z}{\delta X} \cdot \cos(\psi' - \psi) \qquad f = \frac{\delta X}{\cos\theta' \cos(\psi' - \psi)}$$

} "Observations on Magnetic Disturbances," by Col. Sabine, Part I. 1840-41, page xix.

By applying these equations to the five last lines in Table LXXIII. we obtained the following situation of the *Disturbing Pole;* X and ψ being assumed to be 7·94 and 0°14′ (East) respectively.

ψ = 0°14′, X = 7·94,	δX = −·013;	δZ = ·001;	$\delta\psi$ = 0·42	$\therefore \psi'$ = − 6°52;	θ' = −4°22′;	f = ·013
„ „	−·016 „	·001	1·00	− 7·58	−3·32	·016
„ „	−·026 „	·000	1·24	− 6·51	0·00	·026
„ „	−·030 „	·001	2·24	−10·14	−1·52	·030
„ „	−·043 „	·001	2·24	− 7·04	−0·19	·043

Of Table LXXIII. only the last five lines were taken, because the first lines, being the effects of small Disturbances (as may be seen from the smallness of the numbers), their result would not have been so accurate as that now obtained. It is rather a curious fact that all the five lines, as above taken, should give nearly the same direction to the Disturbing Force f, and that all the

uncalculated lines of Table LXXIII. should also tend towards the same conclusion: now from this it is considered quite safe to infer, that all the Disturbances which are felt at Bombay are produced from one point, whose position is:—

Declination— 7°40 or 7°40 West.
Dip — 2·01 or 2·01 above the Horizon.

And the *Disturbing Force* is nearly equal to the variation of the *Horizontal Intensity*.

Having determined on, or about, the point from which the Disturbance proceeds, let us now see what further information can be collected from Table LXXII.

On the day when the Disturbance first begins to act,

The *Declination* is generally less Eastward,
The *Horizontal Intensity* is generally a little more than ordinary,
The *Vertical Intensity* is nearly constant,
The *Dip* is generally a little decreased,
And the *Total Intensity* is generally a little more than ordinary.

But when the Disturbance has begun to act,

The *Declination* rapidly increases Easterly,
The *Horizontal Intensity* rapidly decreases,
The *Vertical Intensity* remains nearly constant, or slightly increases,
The *Dip* increases,
And the *Total Intensity* rapidly decreases.

From this it is evident, that that which causes the Disturbance is at first collected to a quantity a little more than ordinary, and then all at once loses its power, and becomes much wasted; Magnetic Elements requiring nearly two or three days to recover their ordinary state.

The Horizontal Force Magnetometer being the most delicate Instrument of the three Magnetometers, the Disturbance is first indicated by it. The following are the times at which the Disturbances were first felt in some of the extraordinary cases—the times at which the Disturbances acted with the greatest Intensity—the Duration of the Disturbances—and the Duration of the Effects of the Disturbances, or the time which the Instruments took to recover their original Readings.

TABLE LXXIV.

Beginning of the Disturbance in the Horizontal Force Magnetometer.		Greatest Intensity of the Disturbance in the Horizontal Force Magnetometer		Duration of the Disturbance in the Horizontal Force Magnetometer.	Duration of the Effects of the Disturbance in the Horizontal Force Magnetometer.
1847.	Hours.		Hours.	Hours.	
February	21st.. 18	February	22nd.. 4	About 10	About 2 days.
March	1st.. 2	March	1st .. 9	„ 7	„ 2 „
„	18th.. 20	„	19th .. 3 and 17	„ 21	„ 2 „
April	19th.. 18	April	20th .. 3	„ 32	„ 2 „
„	20th.. 23	„	21st .. 2		
May	7th.. 18	May	7th .. 23	„ 5	„ 5 „
„	15th.. 17	„	16th .. 0	„ 20	„ 1 „
August	4th.. 15	August	5th .. 2	„ 11	„ 1 „
September	12th.. 20	September	13th .. 5	„ 12	„ 1 „
„	24th.. 0	„	24th ..	„ 96	„ 1 „
„	26th.. 10	„	27th .. 1		
October	12th.. 19	October	13th .. 3	„ 8	„ 1 „
„	22nd.. 19	„	23rd ..	„ 40	„ 4 „
November	22nd.. 3	November	22nd.. 9 and 24	„ 20	„ 1 „
December	16th.. 23	December	17th .. 7		
		„	19th .. 9	„ 96	„ 2 „
„	19th.. 20	„	21st ..		

From this Table it appears that—

1st. The Disturbance generally begins about 21 Hours, Göttingen Mean Time, or about the time the Horizontal Intensity is at its Maximum.

2nd. The Disturbance is at its greatest Intensity about 4 Hours, Göttingen Mean Time, or about the time the Horizontal Intensity (reduced to the Mean Temperature of External Air) is at its Minimum.

3rd. The Duration of a Disturbance is not constant.

4th. And its Effects remain for nearly two days afterwards.

It appears that a Disturbance quite destroys the daily form of both the Declination and Vertical Force Magnetic Curves, but only extends the Curve of the Horizontal Force to an unusual length (downwards). The Effects are nearly always of the same nature, only more or less extensive.

Before concluding this subject, the following opinion is hazarded: yet, as a conclusion drawn from Observations at one Station, it cannot be established, unless corroborated by Observations made at Stations remote from one another :—

It has been shown that all the Magnetic Disturbances at Bombay, during 1847 (and possibly for all years), emanated from one point: Colonel Sabine also hints at the same thing, in his "Magnetic Disturbances," Part I., 1840-41, page xix. of the Introduction. Suppose that this fact is proved at all the Stations where Magnetic Observations are made, it is probable, that like the Magnetic Pole, there is one point on the Earth's surface from which the Magnets at all the Stations on the Earth are disturbed: the direction of this point, of course, being different for the different places of Observation.

If the Disturbances which have occurred at the several Stations were reduced, according to the above form, each Station would furnish a direction; and these several directions will determine the Latitude and Longitude of the point of Disturbance, as well as its height (if any) from the surface of the Earth.

It is observed, that in almost all the Disturbances there is a loss of Directive Force; a question now arises, whether, at the point of Disturbance, the Magnetic property is increased or decreased so as to show the observed Effect. On this matter Colonel Sabine and ourselves do not agree: he supposes that the Magnetic property increases at the Disturbing point, at least this appears from his value of $\psi' - \psi$, which is nearly 135°, which would have been only 45° on the supposition that the Magnetic property is lost. I think that it should be the loss of Magnetism and not the increase of it; for in all the Elements which we know are liable to Disturbance it is the loss that generally causes the Disturbance. For instance, it is the loss in the pressure of the air that causes atmospheric storms; it is the loss in the vital power that destroys the animal body; and so it is in all material things; it is seldom the gain that causes the Disturbance. On the foregoing supposition, therefore, the direction of the Disturbing point at Bombay was determined.

And on this supposition the following will be the directions of the Disturbing point, both from Bombay and Toronto:—

TORONTO..	Lat.... 43°39′ *N.*	
	Long... 79°21′ *W.* of Greenwich.	
Direction of Disturbing point	Declination.. 44° East.	
	Inclination.. 37° above Horizon.	
	From the three Disturbances in 1840-41.	
BOMBAY.	Lat.... 18°54′ *N.*	
	Long... 72°[illegible] *E.* of Greenwich.	
Direction of Disturbing point	Declination.. 7½° West.	
	Inclination... 2° above Horizon.	
	From nearly 30 Disturbances in 1847.	

APPENDIX TO THE MAGNETICAL RESULTS.

PROGRESSIVE CHANGES OF DECLINATION.

It is now a fact firmly established, that the Declination of the Magnetic Needle does not remain constantly the same in the same place, but undergoes, for a time, a slow progressive, and afterwards a retrograde motion: thus the Needle, early in the seventeenth century, both in *London* and *Paris*, inclined to the Eastward of the true Meridian. About the year 1660, in London it was at Zero, or pointed exactly North; after this time it inclined Westerly, till 1818. Since then it has slowly diminished, and is now progressing Eastwards.

Similar changes have, apparently, taken place at Bombay; for in 1676 the Declination was 12° West of the true Meridian, (Brewster on Magnetism,) and at present it is 0°13′ Easterly. Considering that an investigation of this unaccountable circumstance, in so far as it relates to Bombay, may be of some importance in Magnetical research, the following results of our investigation of this subject are here presented to the notice of Magnetists.

Dr. Brewster, in his work on Magnetism, gives the Declination of the Magnetic Needle at several places in India; from which work the Declination at Bombay is extracted, and given in the following Table, together with the Declination determined from Observations, made at the Observatory:—

From Dr. Brewster.	1676,	Declination	12°00	West.	
	1721,	„	5·16	„	Mathews.
	1722,	„	5·07	„	„
	1723,	„	5·10	„	„
	1751,	„	5·12	„	„
	1817,	„	0·00		Yeates.
From the Bombay Observatory.	1844,	„	0·11	East,	Dr. Buist.
	1845,	„	0·12	„	Professor Orlebar.
	1846,	„	0·12	„	„
	1847,	„	0·13	„	Captain C. W. Montriou.

These Observations show that there has been a regular decrease of Westerly Declination from 1676 until 1817, when the Magnetic Needle was due North; from this time the Variation became Easterly, and appears to continue progressing in that direction. But the Observations, however, are not sufficient to detect the law of the Changes in the Declination.

As the Variation at several places along the Southern Coast of India was known at those times when no account of it is given for Bombay, three of those places are taken into account, in order to deduce from the known Variation at each place an approximate Value of the Variation at

Bombay. The names of the places, and the Variation at each, are set down in the following Table :—

Cape Comorin.		Madras.		Point de Gallo (Ceylon).	
Year.	Declination.	Year.	Declination.	Year.	Declination.
1601	16°00′ West.	1722	2°52′ West.	1613	13°14′ West.
1620	14·20 „	1723	3·16 „	1723	2·46 „
1680	8·45 „	1809	3·00 East.	1814	2·10 East.
1688	7·30 „				
1723	2·51 „				
1815	2·09 East.				

Comparing these with the Observations at Bombay, it was found that the Declination at Bombay was greater than that at

Cape Comorin, by 3°2 nearly, on the whole,
Madras..... „ 4·2 „ „
Point de Galle „ 4·3 „ „

Adding these, severally, to the above Values of Declination, an approximate Value of the Declination at Bombay is obtained for each of the above years. See the following Table :—

Place of Observation.	Year.	Reduction.	Declination of Bombay.
Cape Comorin.....	1601	16°0 + 3°2 =	19°2 West.
Point de Galle....	1613	13·4 + 4·3 =	17·7 „
Cape Comorin.....	1620	14·3 + 3·2 =	17·5 „
Bombay	1676		12·0 „
Cape Comorin.....	1680	8·8 + 3·2 =	12·0 „
„	1688	7·5 + 3·2 =	10·7 „
Bombay	1721		5·3 „
„	1722		5·1 „
„	1723		5·2 „
Cape Comorin.....	1723	2·9 + 3·2 =	6·1 „
Madras	1723	3·3 + 4·2 =	7·5 „
Point de Galle....	1723	2·8 + 4·3 =	7·1 „
Madras	1809	− 3·0 + 4·2 =	1·2 „
Point de Galle....	1814	− 2·3 + 4·3 =	2·0 „
Cape Comorin.....	1815	− 2·1 + 3·2 =	1·1 „
Bombay	1847		0·2 East.

These Values furnished us with an Empirical formulæ for calculating the Declination of any year, and was found to be correct enough, from the year 1600 to 1800 : the formulæ is as follows :—

The Declination $= (7{\cdot}4\,n + 66{\cdot}0)(n + 1) - 4°5'$
Where 7·4, 66·0 denotes Minutes of Arc;
and n, the decade before the year 1900.

The following Table shows the Declination at Bombay, for each decade, from the year 1600 to 1900, calculated according to the above formulæ :—

Year.	Calculated Declination.	Diff. for 10 Years.	Year.	Calculated Declination.	Diff. for 10 Years.	Year.	Calculated Declination.	Diff. for 10 Years.
1600	18°42′ West.	0°56′	1700	10°03′ West.	0°48′	1800	2°39′ West.	0°38′
1610	17·46 „	·55	1710	9·15 „	·48	1810	2·01 „	·37
1620	16·51 „	·54	1720	8·29 „	·47	1820	1·24 „	·36
1630	15·57 „	·53	1730	7·40 „	·46	1830	0·48 „	·35
1640	15·04 „	·52	1740	6·54 „	·45	1840	0·13 „	·34
1650	14·12 „	·52	1750	6·09 „	·44	1850	0·21 East.	·33
1660	13·20 „	·51	1760	5·25 „	·43	1860	0·54 „	·32
1670	12·29 „	·50	1770	4·42 „	·42	1870	1·26 „	·31
1680	11·39 „	·49	1780	4·00 „	·41	1880	1·57 „	·31
1690	10·50 „	·47	1790	3·29 „	·40	1890	2·28 „	·31
						1900	2·59 „	

The agreement between these Calculations and the reduced Values of the Declination for Bombay are very close, as will been seen from the following Table:—

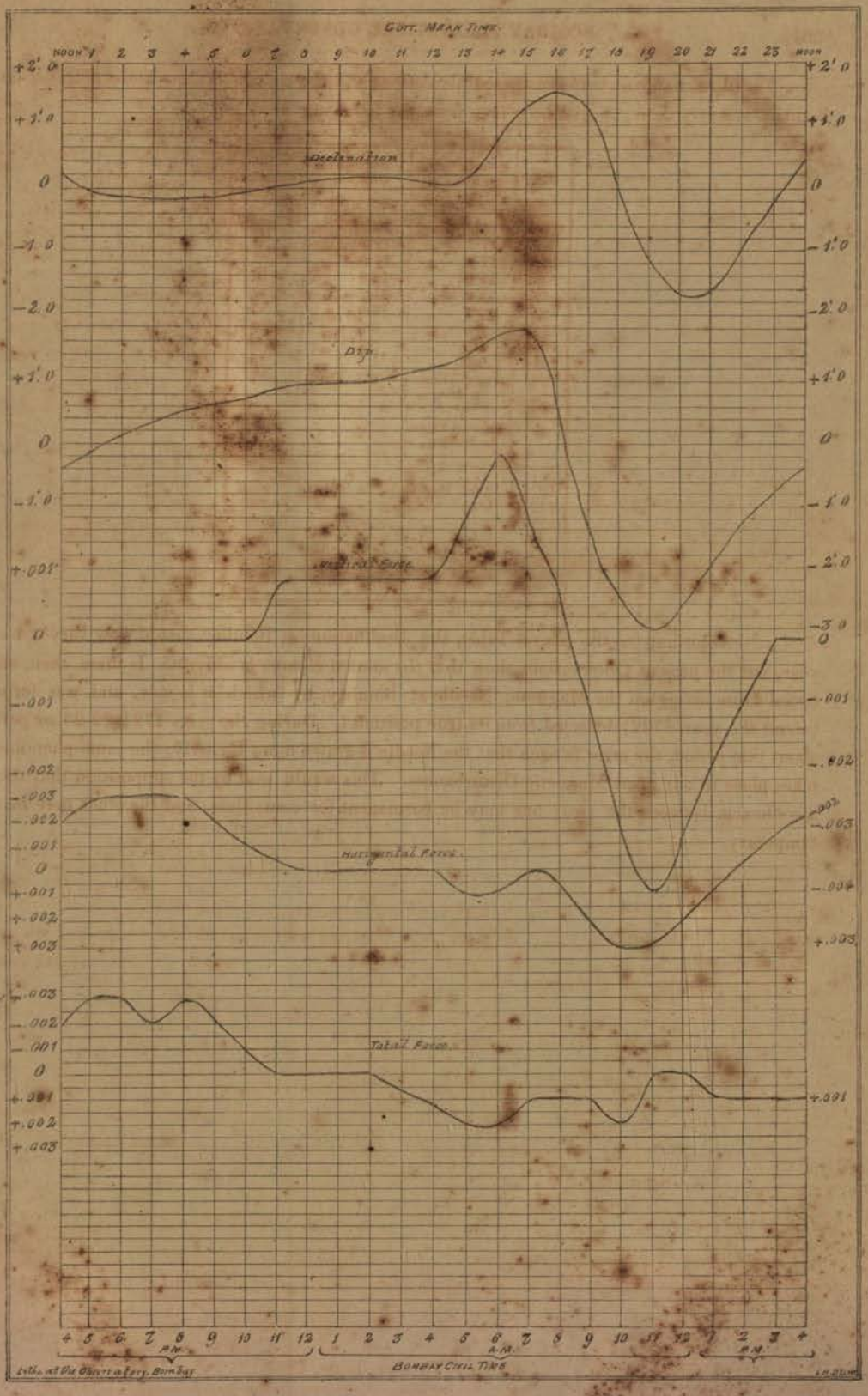
Year.	Reduced Values for Bombay,	Calculated Declination.	Difference.
1601	19°2 West.	18°7 West.	0°5
1613	17·7 „	17·7 „	·0
1620	17·5 „	16·9 „	·6
1676	12·0 „	12·6 „	- ·6
1680	12·0 „	11·7 „	·3
1688	10·7 „	10·9 „	- ·2
1722	6·5 „	8·5 „	-2·0
1809	1·2 „	2·1 „	- ·9
1814	2·0 „	1·8 „	·2
1847	- 0·2 East.	- 0·3 East.	·1
	Observed Values for Bombay.		
1676	12°00′ West.	12°00 West.	0°00′
1721	5·16 „	6·25 „	-3·09
1723	5·10 „	8·16 „	-3·06
1751	5·12 „	6·10 „	-0·58
1844	0·11 East.	0·00 „	-0·11
1847	0·18 „	0·11 East.	-0·02

According to the above Table, the Declination at Bombay should now vary 3·4 every year, but the present Observations show that the annual change is only 0·5. Is there, then, an external cause acting on the Magnetic Needle at Bombay, by which it is now, and was formerly (about the year 1722) deflected from its true position? During the years 1721-22-23, or perhaps about that period, the error is such that the Needle is drawn more Easterly; the same phenomenon takes place in our great Magnetic Disturbances. This would lead to the supposition that there is a connexion between the two; one may be permanent for some time, and the other may be only temporary.

END OF VOLUME I. OF 1847.

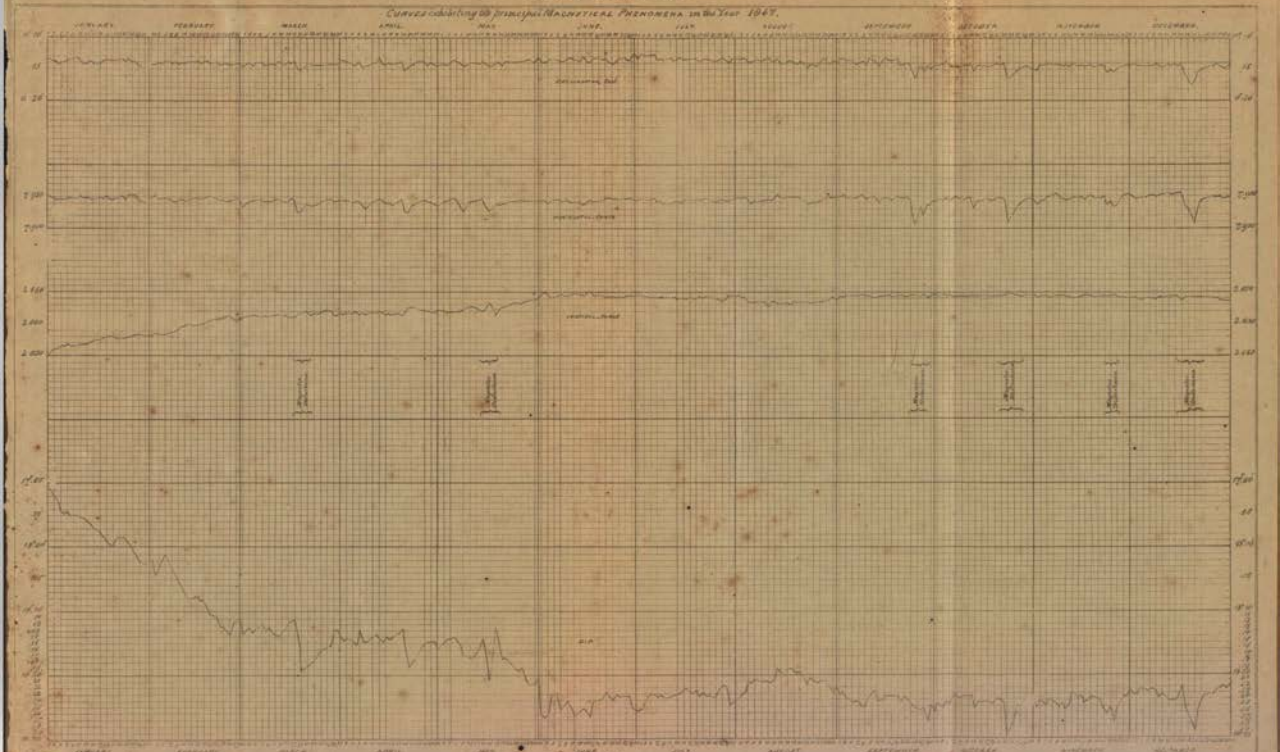
DIURNAL CHANGES OF THE MAGNETIC ELEMENTS

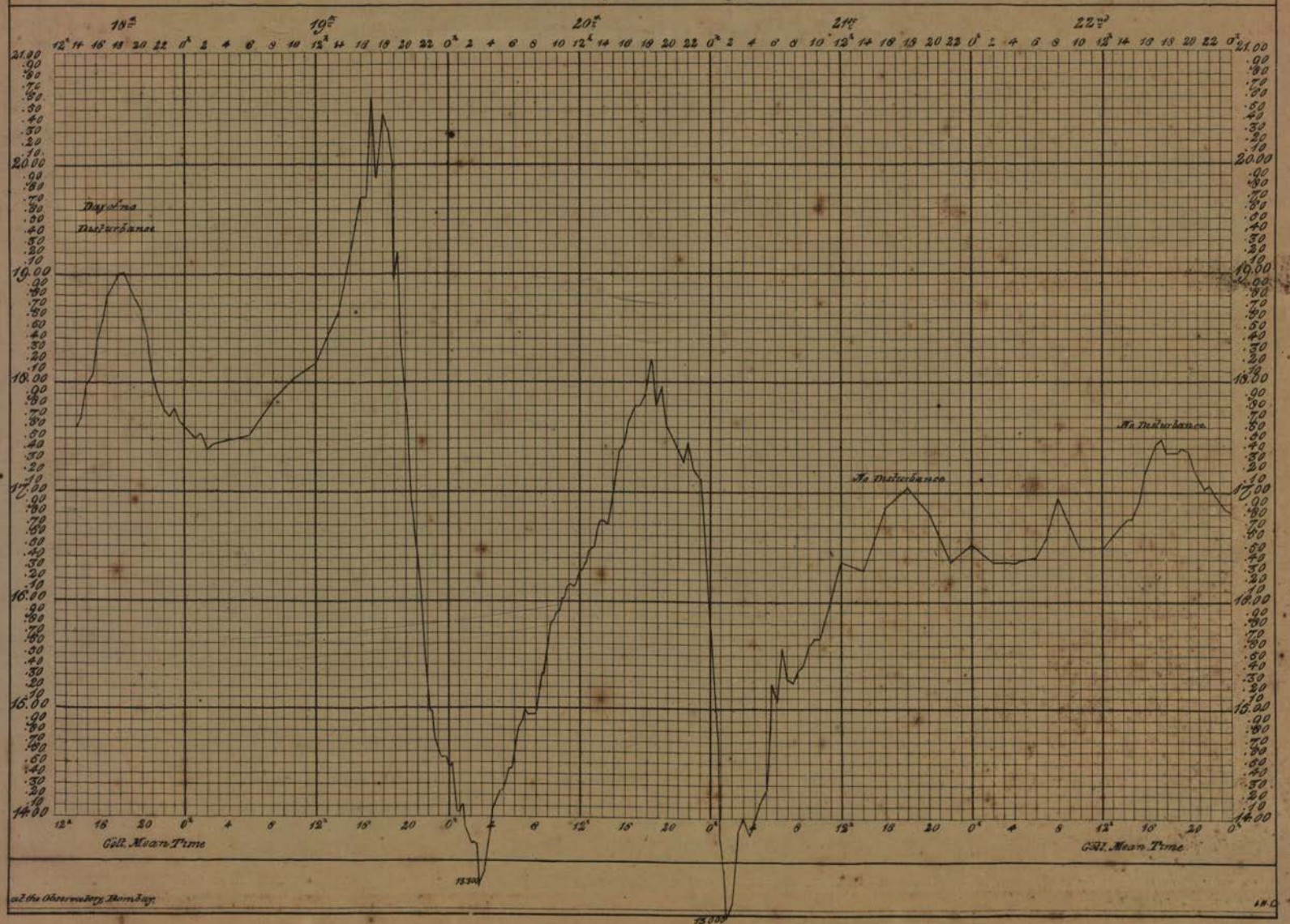
1847



BOMBAY OBSERVATORY

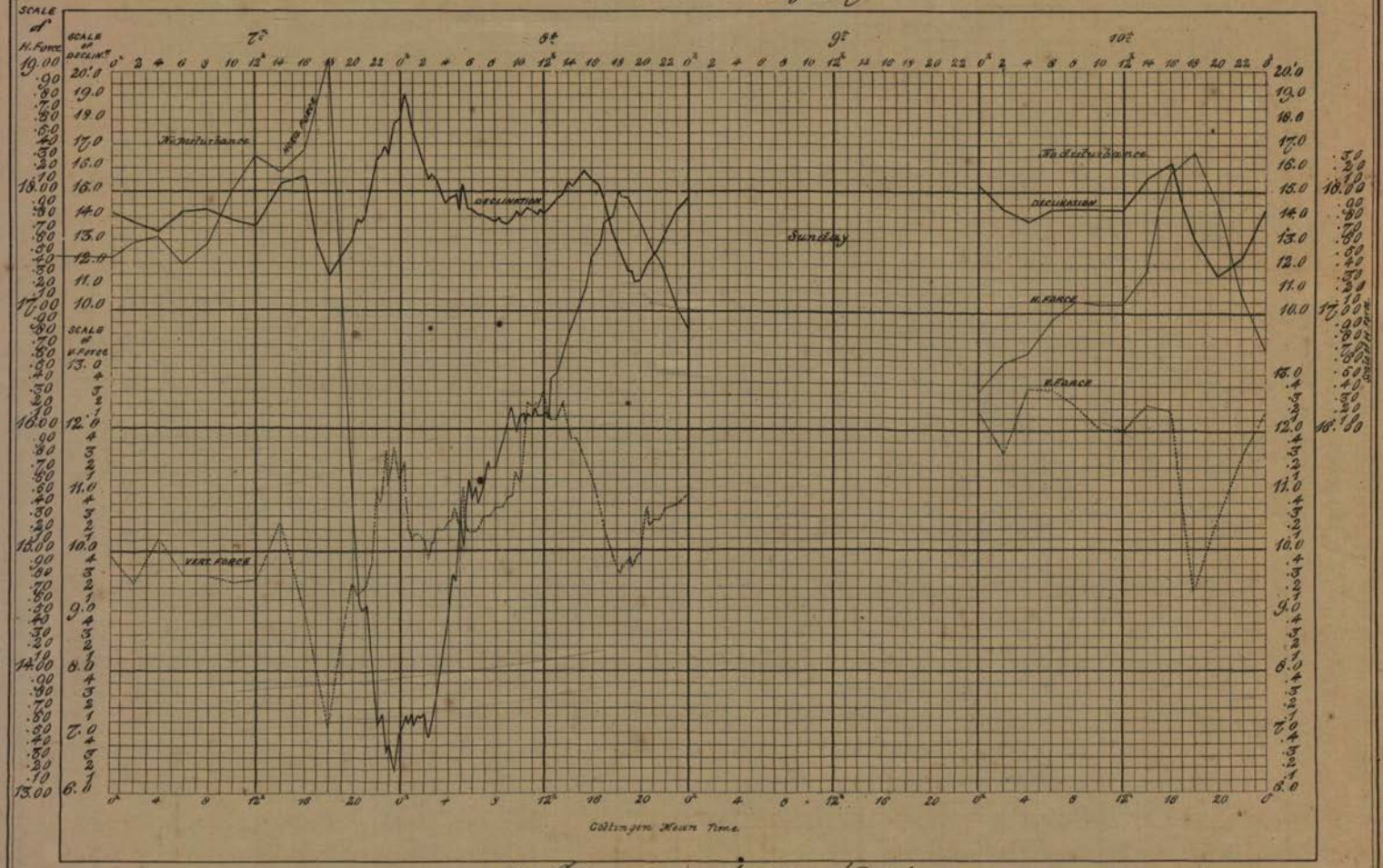
Curves exhibiting the principal Magnetical Phenomena in the Year 1867.




LARGE HORIZONTAL FORCE
Disturbance on the 19th, 20th and 21st April, 1847.
18th
19th
20th
21st
22nd
Day of no Disturbance
No Disturbance
No Disturbance
Gött. Mean Time
Gött. Mean Time
13300
13000
at the Observatory, Bombay.

MAGNETIC DISTURBANCE

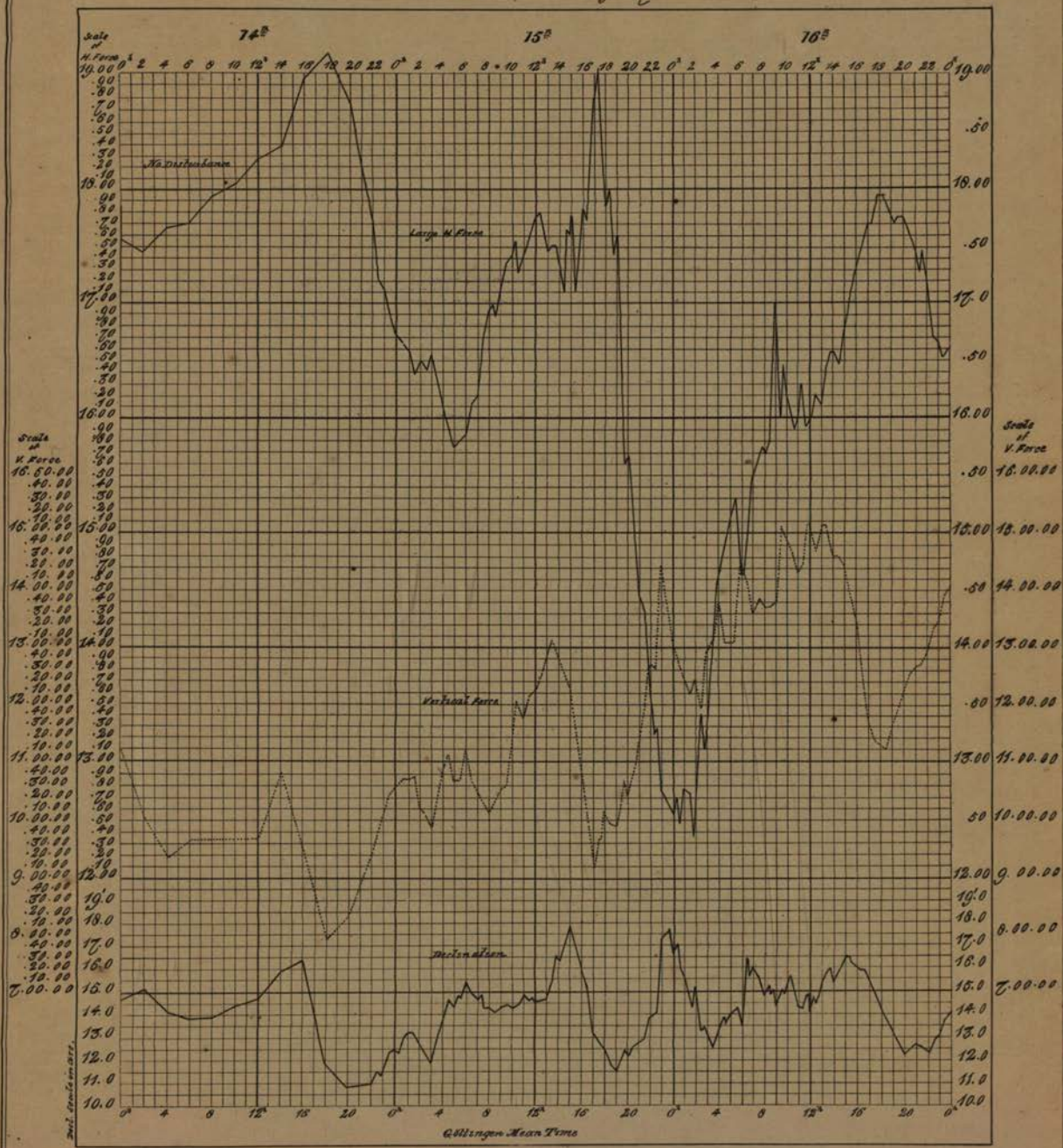
On the 7th and 8th of May 1847.



Note... The Curves are projected ½ hourly during the Disturbance.

MAGNETIC DISTURBANCE

On the 14th, 15th and 16th May, 1847.

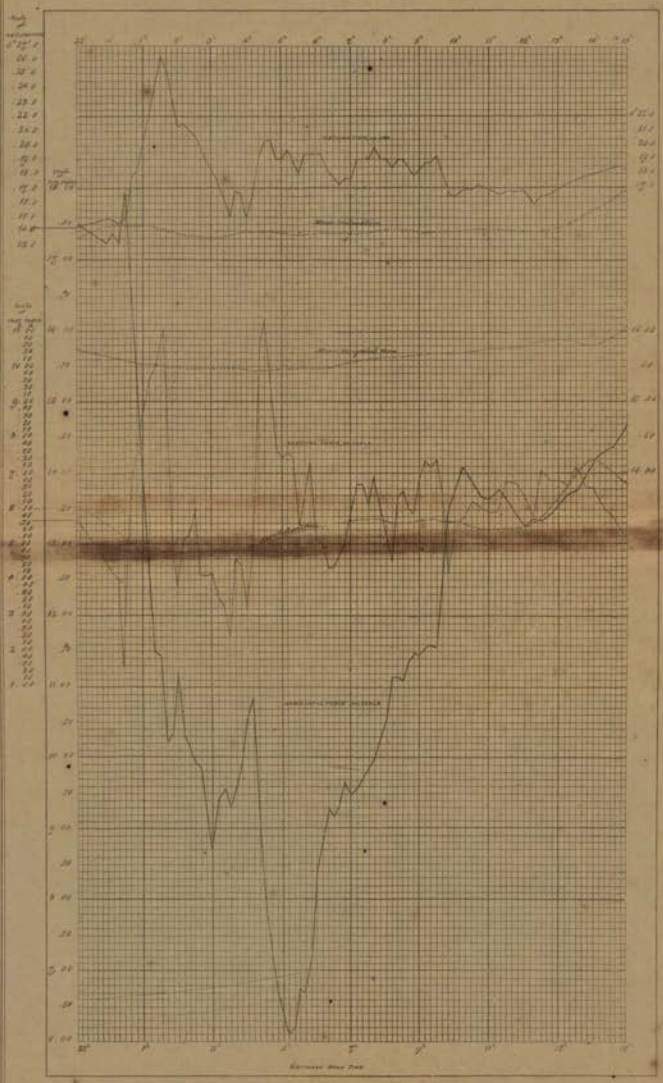


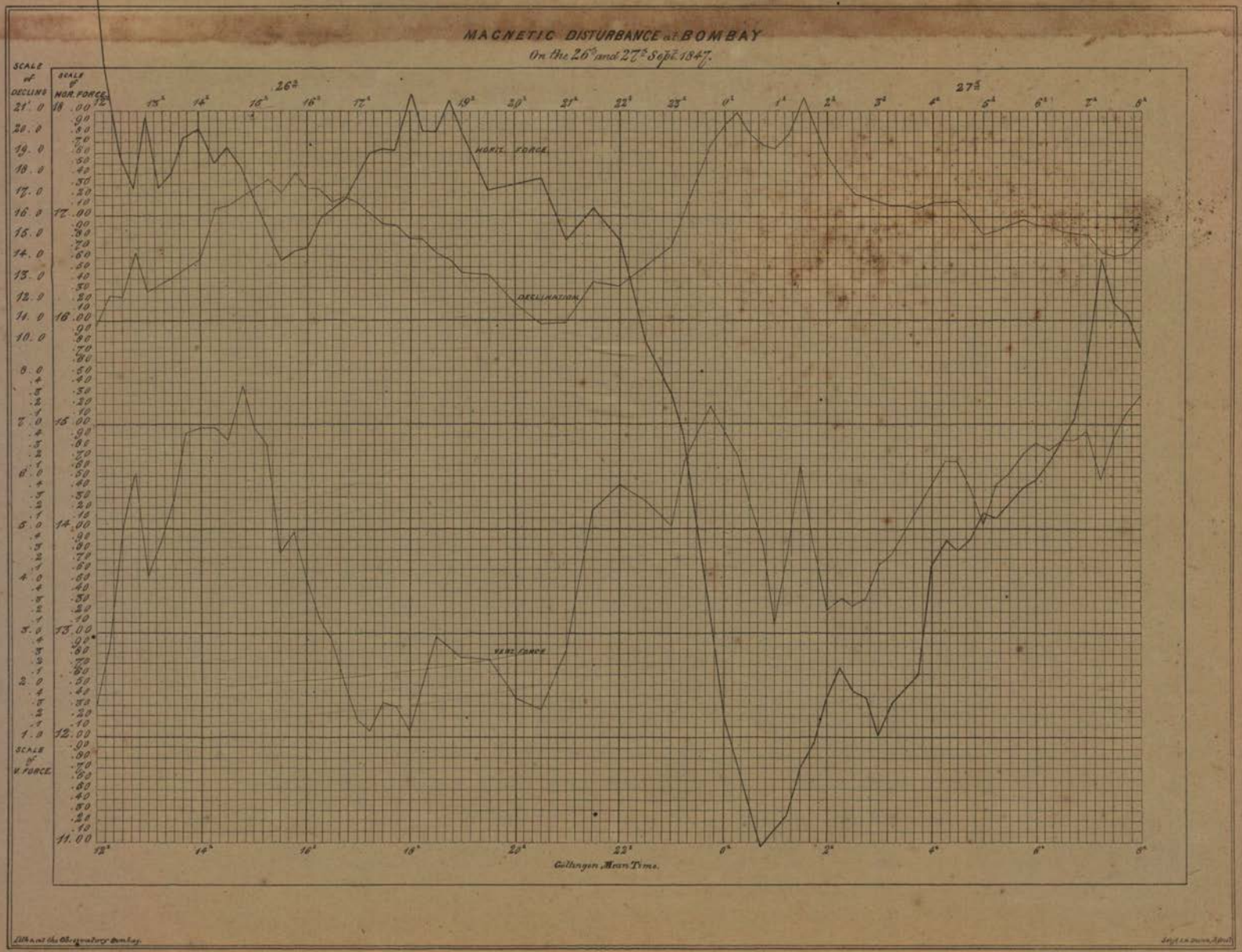
Litho. at the Observatory, Bombay.

Sergt. I. A. Dunn. 17 Apl.

MAGNETIC DISTURBANCE, BOMBAY

On the 24th of Sept. 1847.

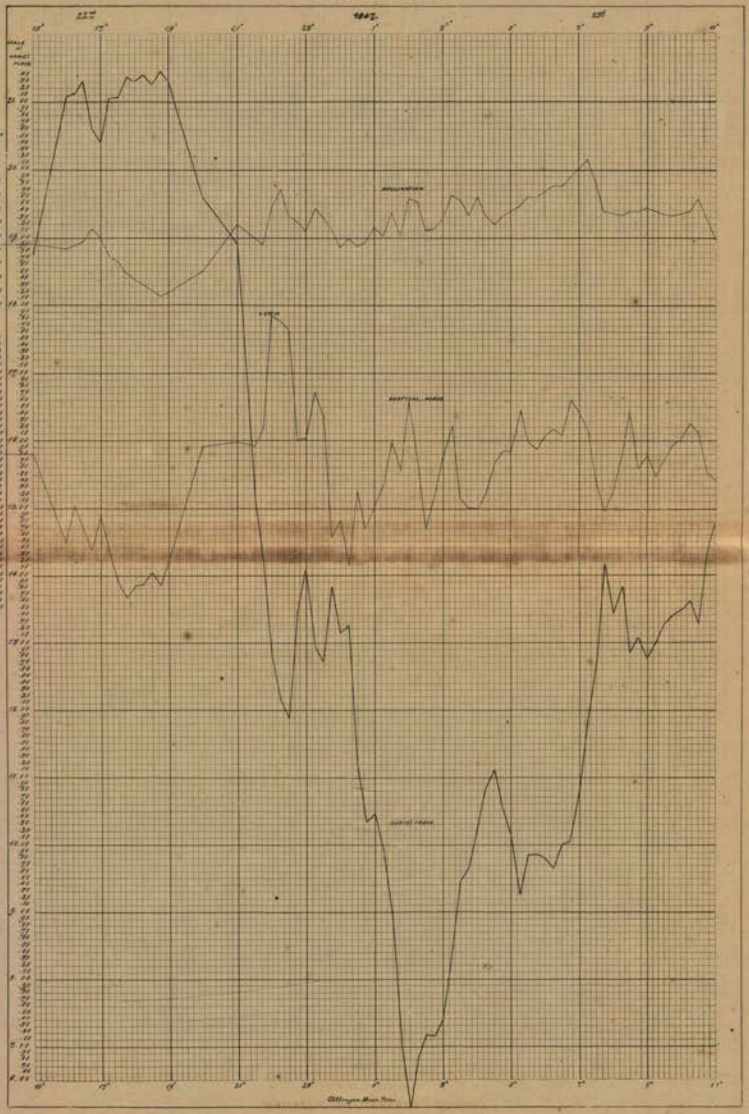


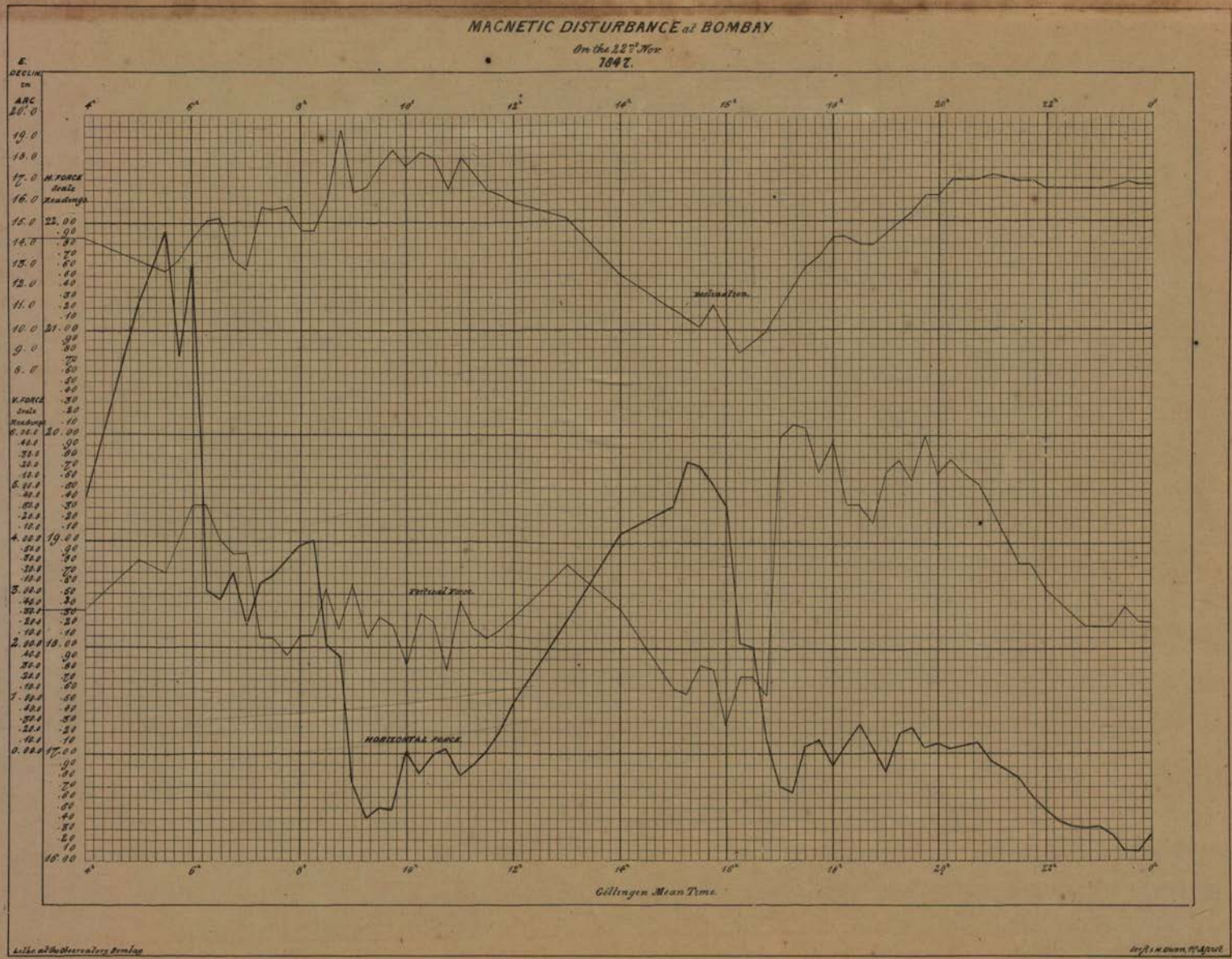

MAGNETIC DISTURBANCE at BOMBAY
On the 26th and 27th Sept. 1847.
SCALE of DECLINS
SCALE of HOR. FORCE
SCALE of V. FORCE
HORIZ. FORCE
DECLINATION
VERT. FORCE
Göttingen Mean Time.
Lith. at the Observatory Bombay.

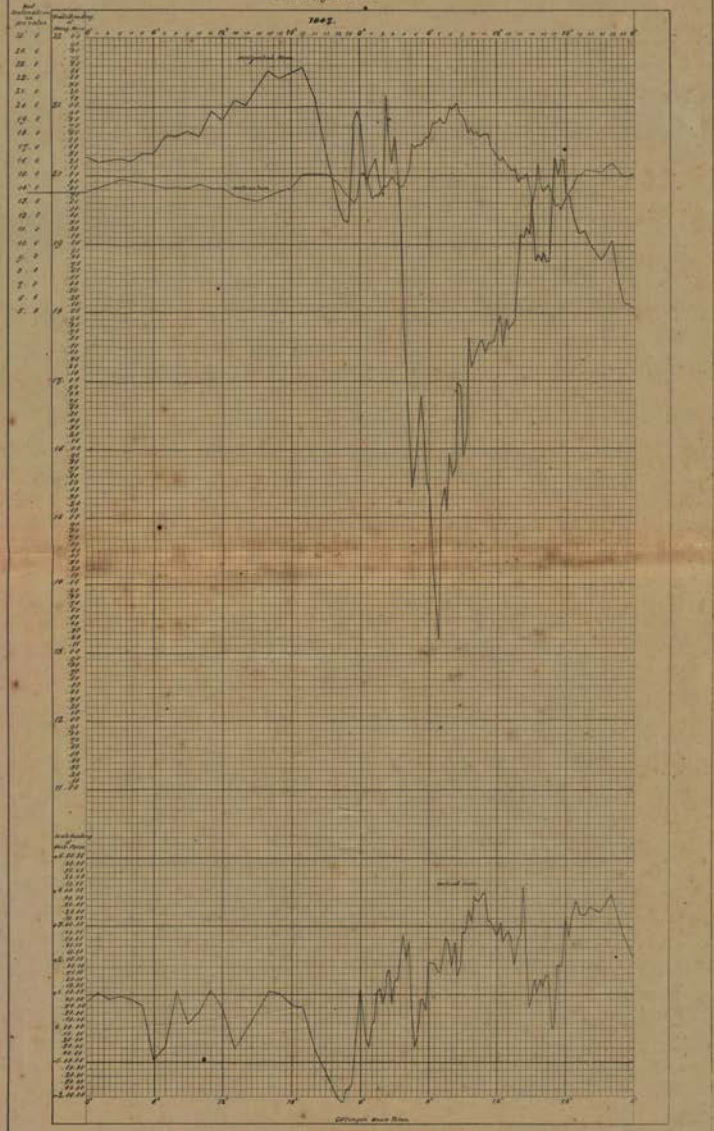
MAGNETIC DISTURBANCE at BOMBAY.

On the 22nd and 23rd October

1847.

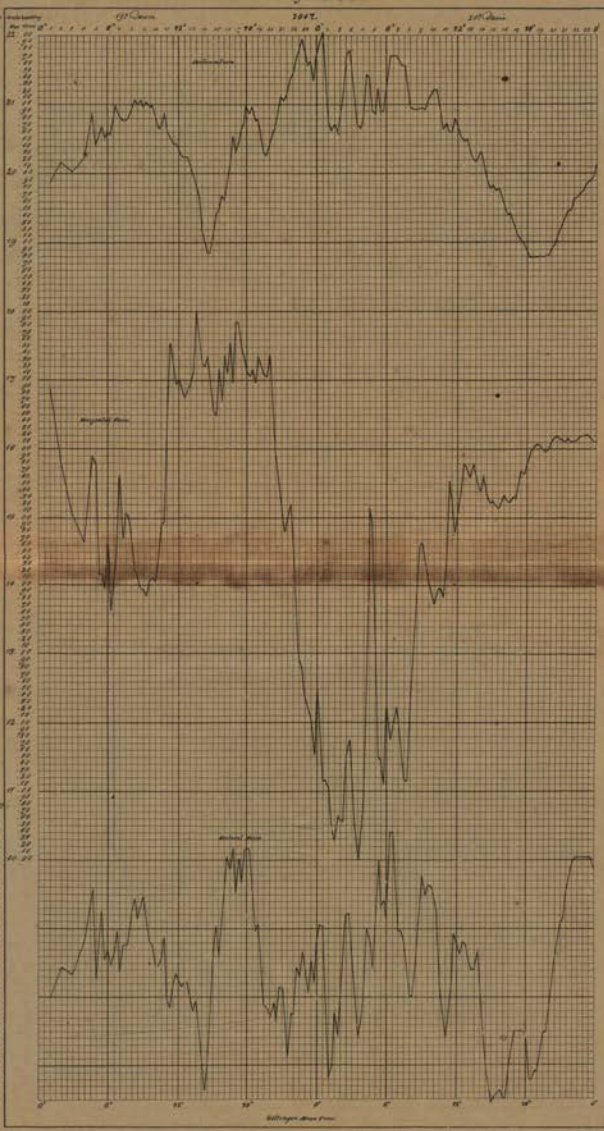



MAGNETIC DISTURBANCE at BOMBAY
On the 22nd Nov.
1847.
E. DECLIN. in ARC
H. FORCE Scale Readings
V. FORCE Scale Readings
Declination.
Vertical Force.
HORIZONTAL FORCE.
Göttingen Mean Time.
Litho. at the Observatory Bombay
Dept. I. H. Dunn, Pt. Assist.


MAGNETIC DISTURBANCE at BOMBAY
On the 16th & 17th December
1902.

MAGNETIC DISTURBANCE at BOMBAY.

On the 19th and 20th March.



00133490

Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020